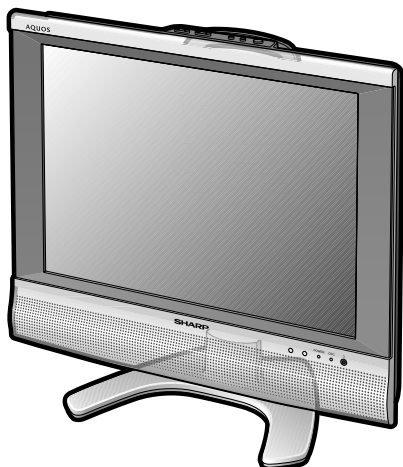


SHARP**SERVICE MANUAL**

S05P3LC20S5HM

**LCD COLOUR TELEVISION****MODELS LC-20S5H/M/X**

In the interests of user-safety (Required by safety regulations in some countries) the set should be re-stored to its original condition and only parts identical to those specified should be used.

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IMPORTANT SERVICE SAFETY PRECAUTION

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F6700 (1A, 250V), F6701 (1A, 250V), F6702 (1A, 250V), F6703 (1A, 250V) F6704 (1A, 250V) AND F7701 (3.15A, 250V) FUSE.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

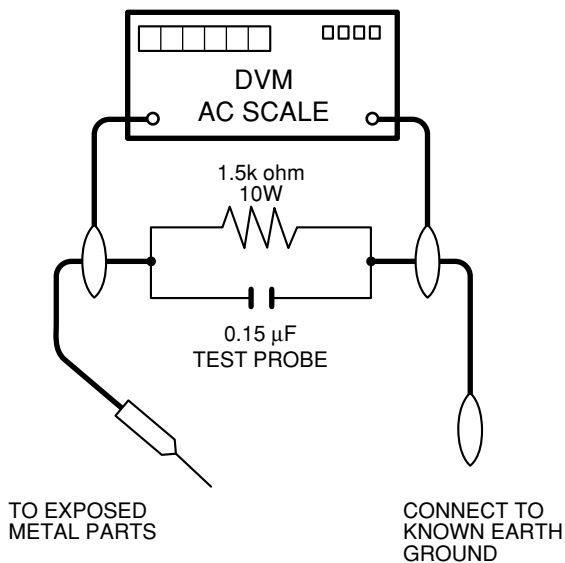
Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 110~240 volt AC outlet.
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
 - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 1.05V peak (this corresponds to 0.7 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠"

and shaded areas in the **Replacement Parts Lists and Schematic Diagrams**.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

Precautions for using lead-free solder

1 Employing lead-free solder

"All PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

LFa

Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDai123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDai126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDai12801KE	J	φ1.0mm 1kg(1roll)	BM

Precautions on removing the Sub PWB

• CAUTION

Before taking out and servicing the Sub unit, be sure to discharge the C7703 electrolytic capacitor. Otherwise you may get an electric shock by the capacitor's charging voltage.

SPECIFICATIONS

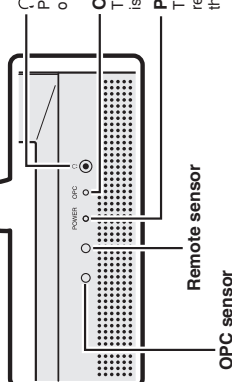
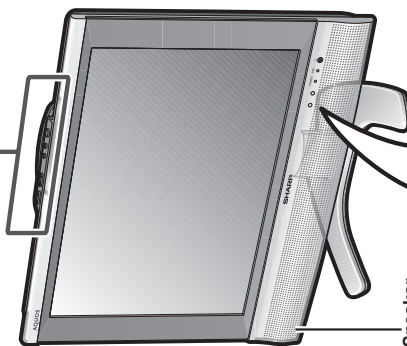
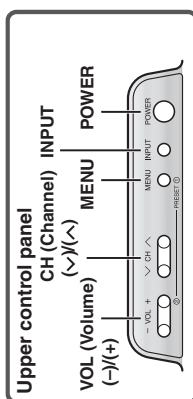
ITEMS		MODEL	LC-20S5H/M/X
LCD panel			20" (50 cm) Advanced Super View & BLACK TFT LCD
Number of pixels			921,600 dots VGA
Video colour systems			World multi system
TV function	TV Standard (CCIR)		PAL: B/G, I, D/K NTSC: M SECAM: B/G, D/K
	TV Tuning System		Auto preset tuning
	STEREO/BILINGUAL		NICAM-B/G, I, D/K A2 stereo-B/G
	AUTO PRESET		Yes
CATV			S1~S41 ch. Hyper Band
4-LINE DIGITAL COMB FILTER			Yes
Brightness			430 cd/m ²
Viewing angles			H: 170° V: 170°
Audio output			2.1 W · 2
Speakers			4 × 11 cm, 2 pcs.
Terminals	INPUT1		AUDIO-IN, COMPONENT-IN
	INPUT2		AUDIO-IN, VIDEO-IN, S-VIDEO-IN
	INPUT3		AUDIO-IN, VIDEO-IN/AUDIO-OUT, VIDEO-OUT
	Antenna		DIN-Type
Headphone jack			3.5 mm ø jack (Front)
OSD LANGUAGE			English/Chinese/Arabic (Only for LC-20S5M/X)
Power requirement			AC 110–240 V, 50/60 Hz
Power Consumption			64 W (0.7 W at Standby)
Weight	Display only		6.6 kg
	Display with stand		7.3 kg
Operating temperature			0°C to +40°C

■ As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for the LCD TV set improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

OPERATION MANUAL

Part Names of the Main Unit

Controls

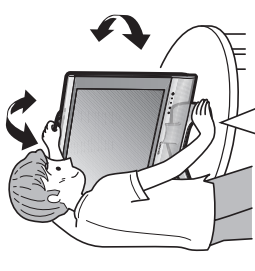


NOTE

- INPUT, CH (✓)(△), VOL (✓)(+), and MENU on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

Terminals

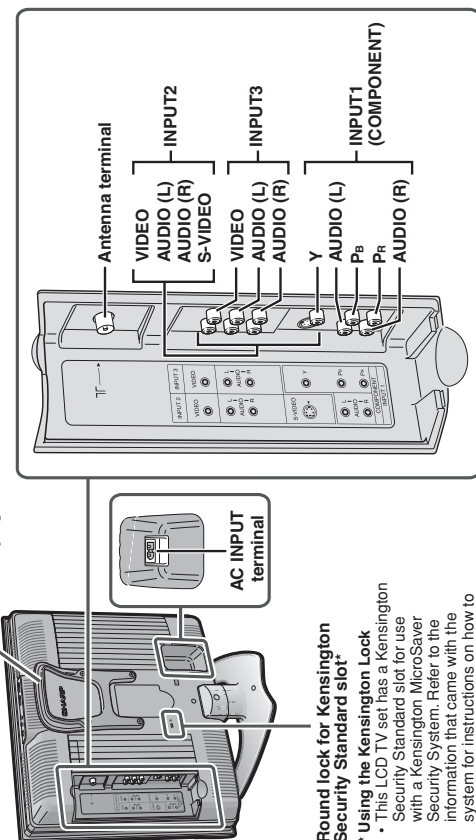
How to adjust the angle



Tilt the display by grabbing onto the carrying handle while securely holding down the stand with your other hand.

To change the vertical angle of the LCD TV set, tilt the screen up to 2.5 degrees forward or 10 degrees backward. The LCD TV set can also be rotated up to 25 degrees to right and left. Please adjust the angle so that the LCD TV set can be watched most comfortably.

Rear View

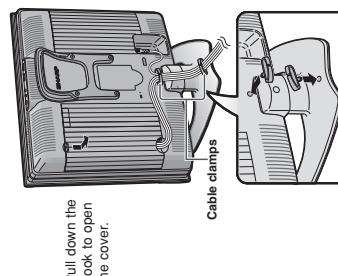


Round lock for Kensington Security Standard slot*

- Using the Kensington Lock
 - This LCD TV set has a Kensington Security Standard slot for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the LCD TV set.

How to Fix the Cables

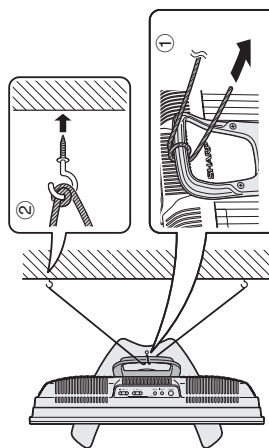
Secure cables and cords with the supplied cable clamps so that they do not get caught when mounting the cover.



How to Prevent the LCD TV Set from Falling Over

To prevent the LCD TV set from falling over in case of earthquakes and so on, strap it onto the wall by threading one end of the string through the loop of the carrying handle (1) and fastening the LCD TV set with the string attached to the hook on the wall or the post, etc. (2). (An example of strapping the LCD TV set onto the wall is shown below.)

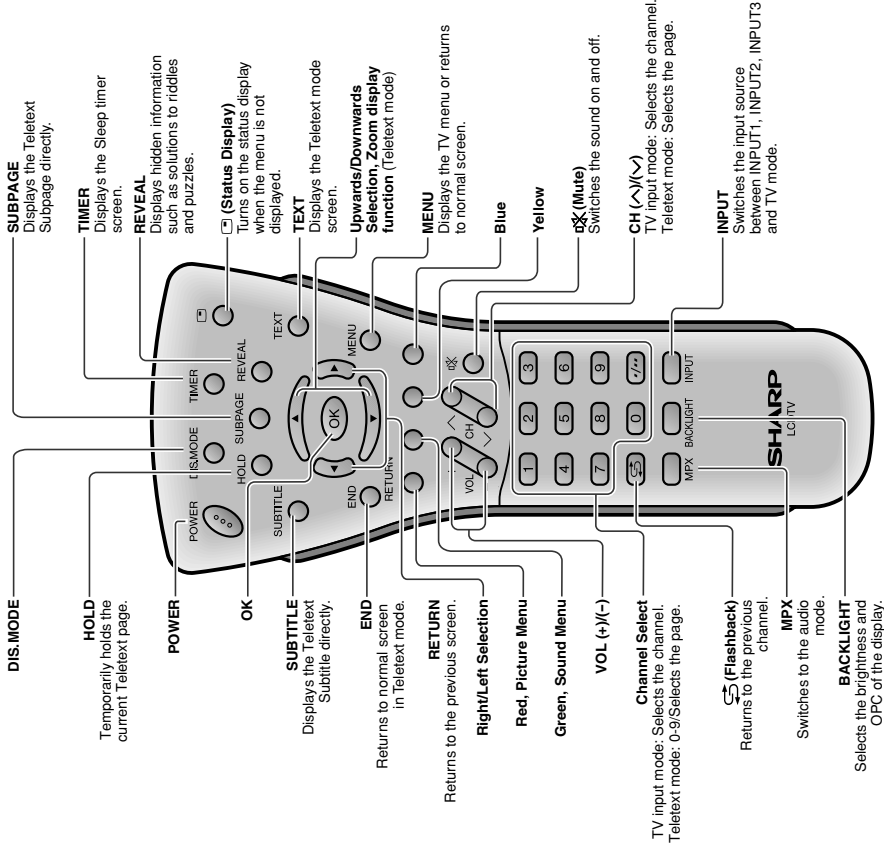
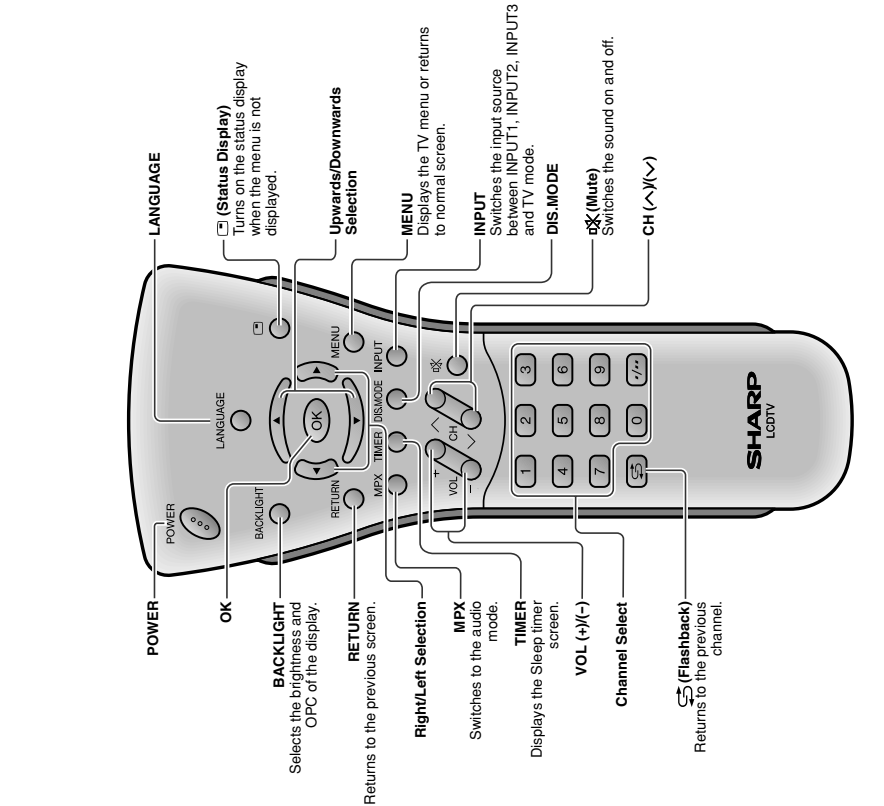
- The string and hook are commercially available.



Part Names of the Remote Control

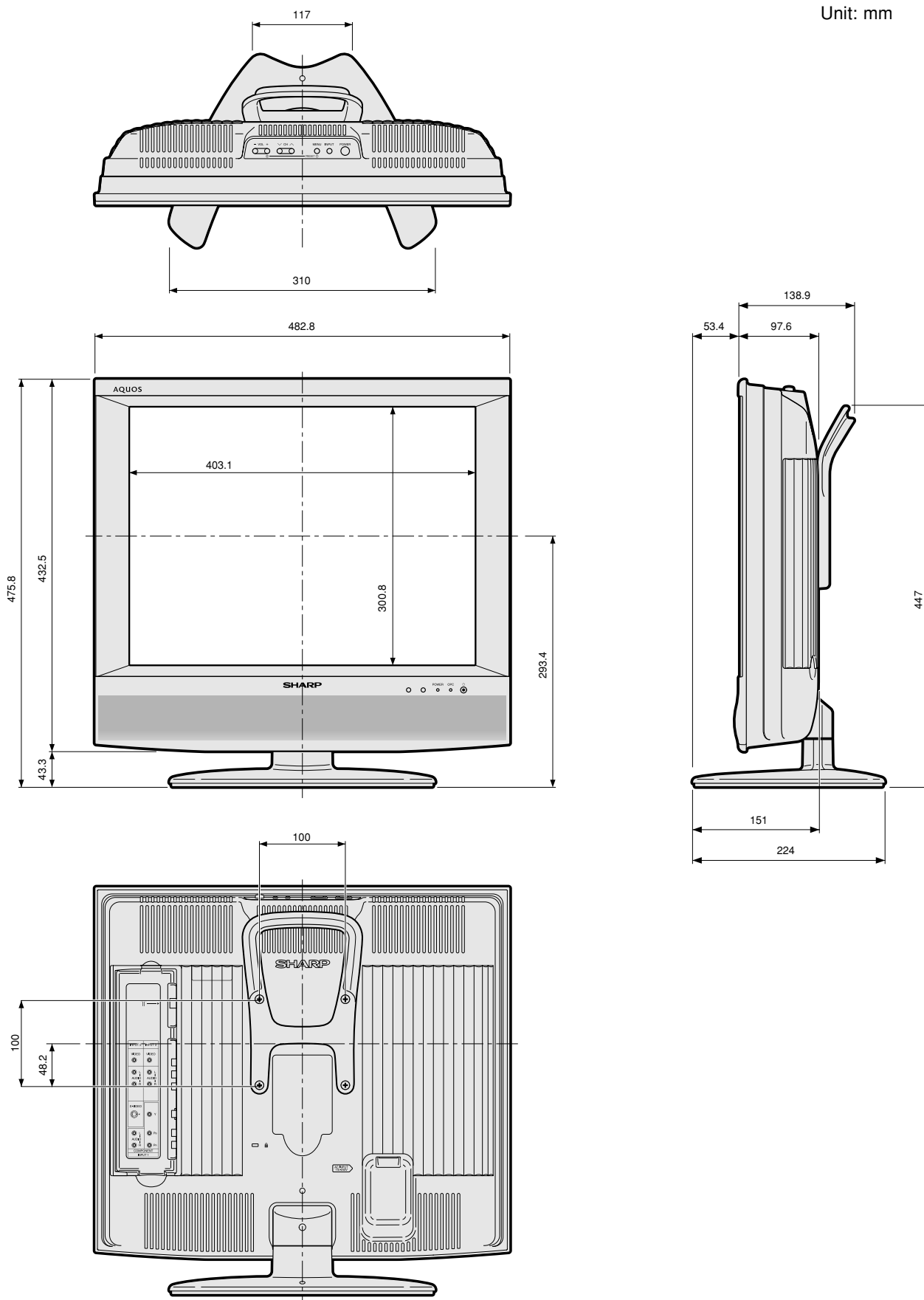
LC-20S5H

LC-20S5M/X



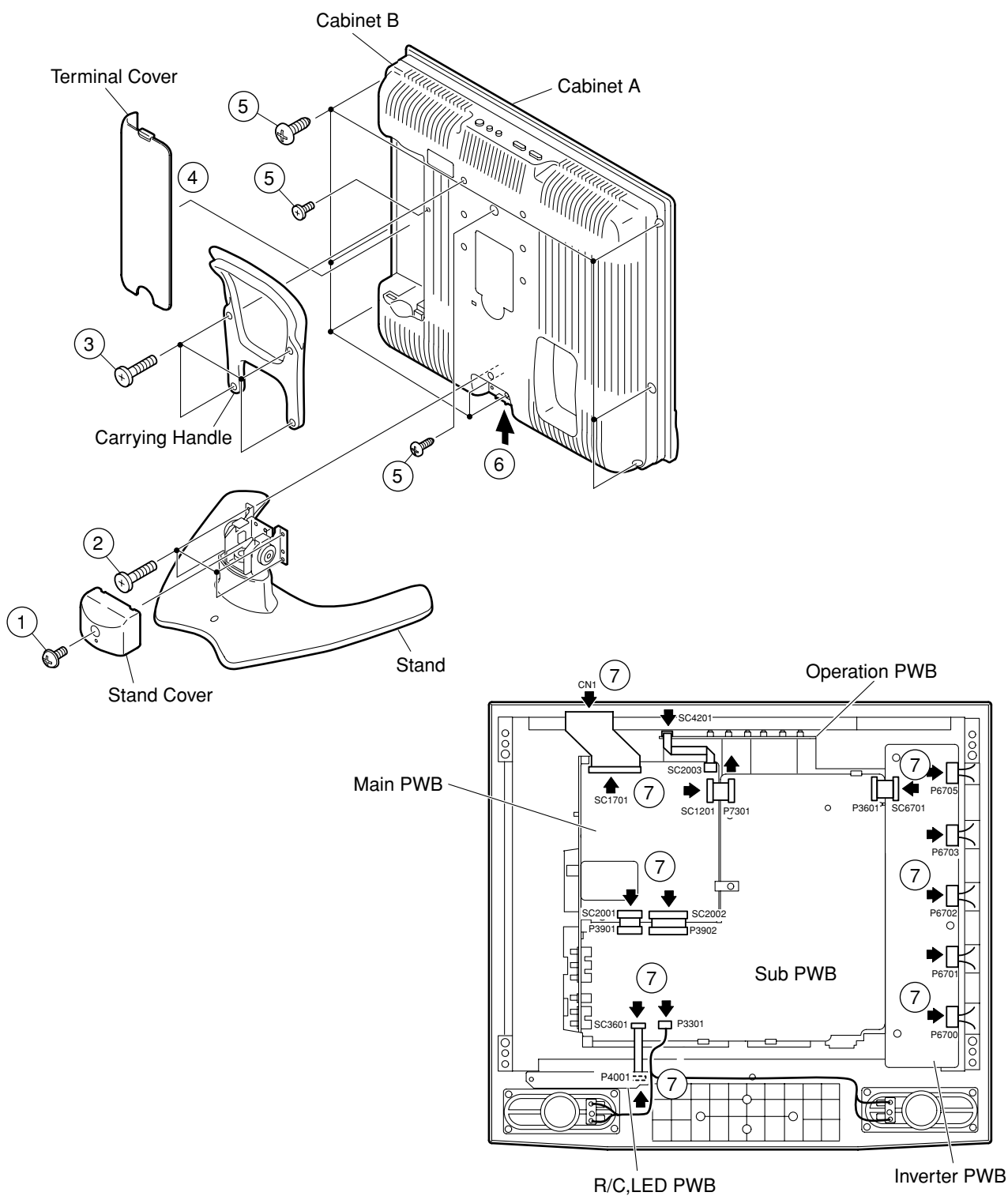
DIMENSIONS

Unit: mm

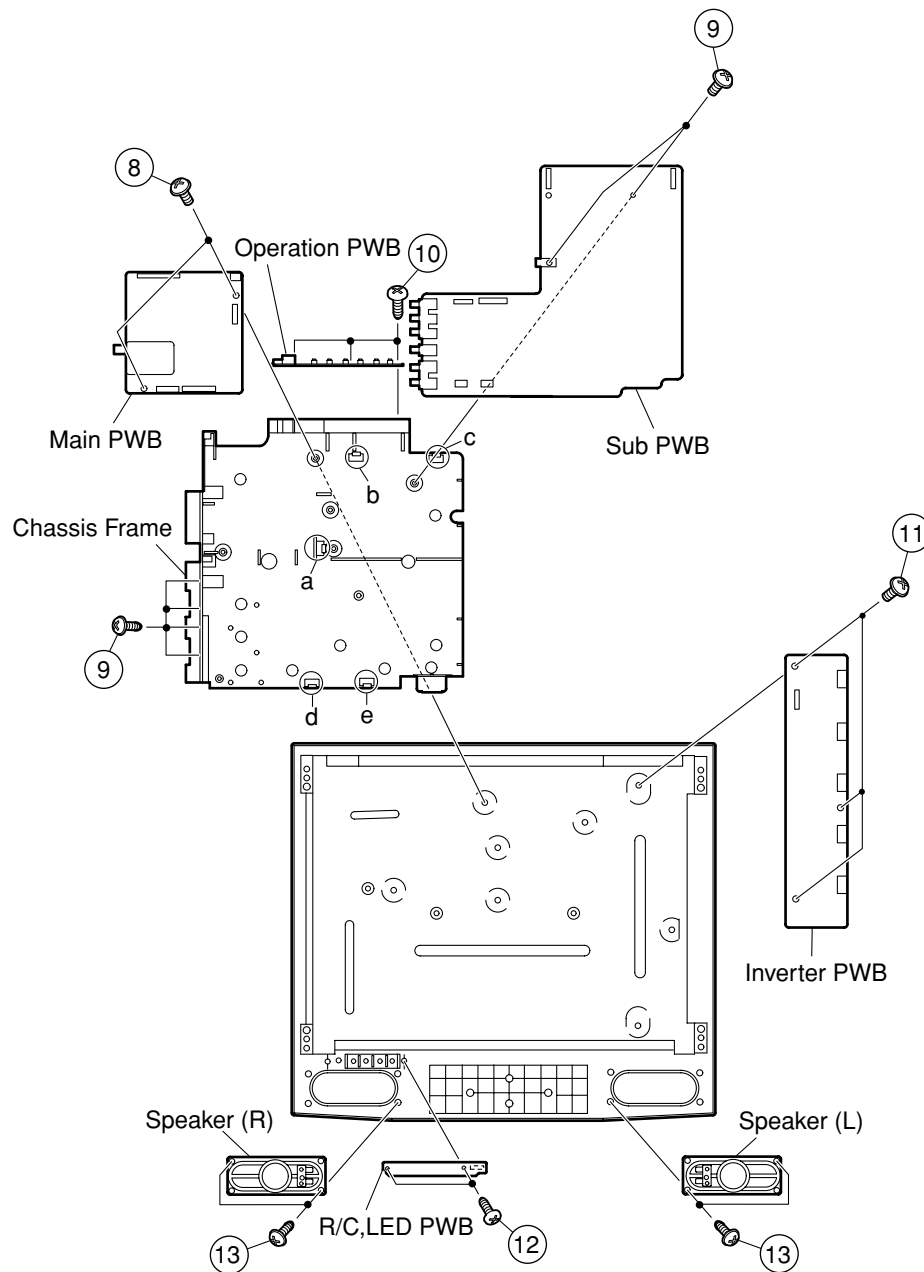


REMOVING OF MAJOR PARTS

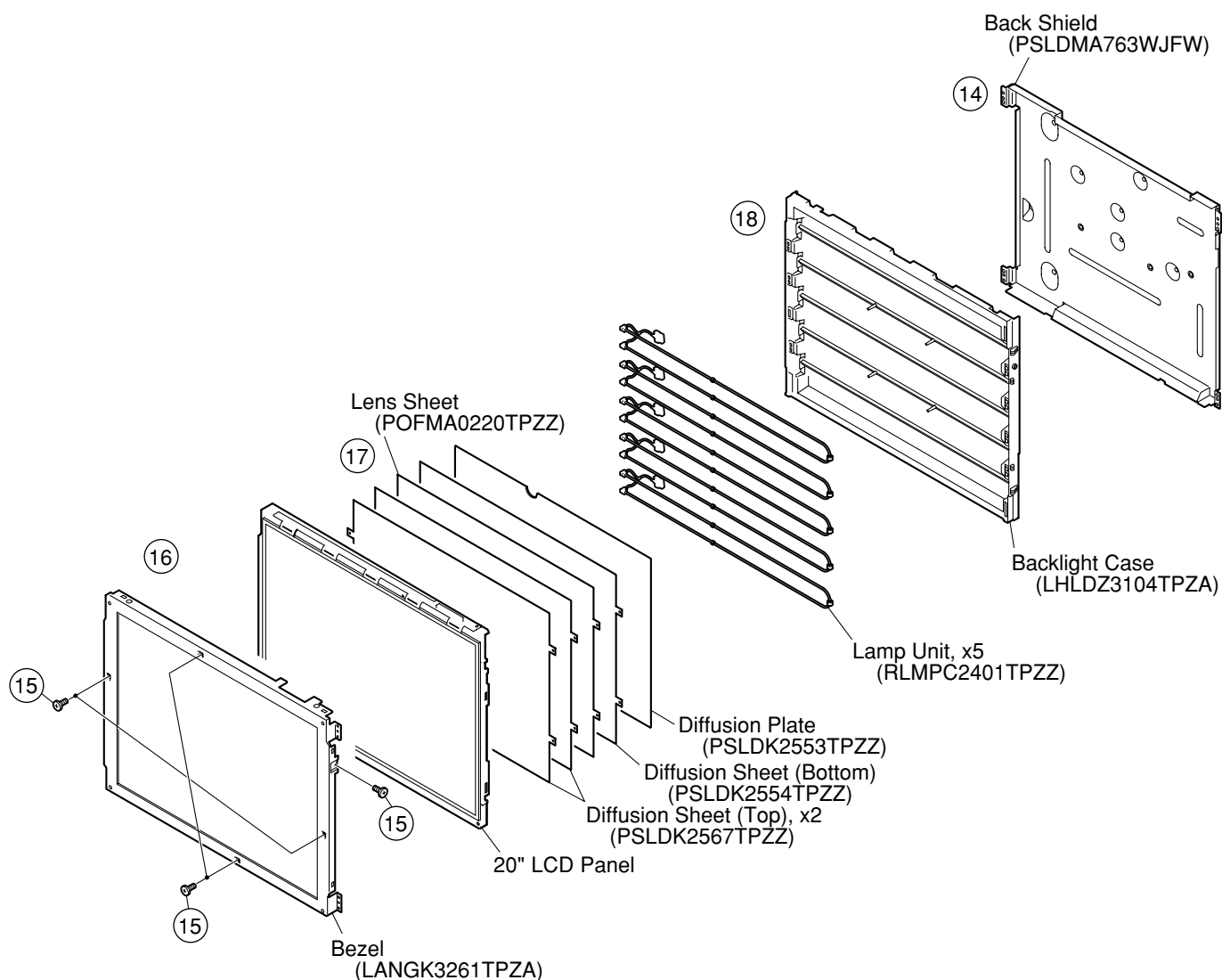
1. Remove the stand cover fixing screw (1 pc.).
2. Remove the stand fixing screws (4 pcs.).
3. Remove the carrying handle fixing screws (4 pcs.).
4. Remove the terminal cover.
5. Remove the cabinet B fixing screws (10 pcs.).
6. Remove the cabinet B after opening from the direction of an arrow.
7. Detach the connector from each PWB.



8. Remove the 2 lock screws from the main PWB and undo the hooks a. Detach the main PWB, together with its terminals, from the chassis frame.
9. Remove the 6 lock screws from the sub PWB and undo the hooks b, c, d and e. Detach the sub PWB together with its terminals, from the chassis frame.
10. Remove the 3 lock screws from the operation PWB, and detach the operation PWB.
11. Remove the 3 lock screws from the inverter PWB and take out the inverter PWB.
12. Remove the 2 lock screws from the R/C, LED PWB and take out the R/C, LED PWB.
13. Remove the 2 lock screws each from the right and left speakers and take out both the speakers.

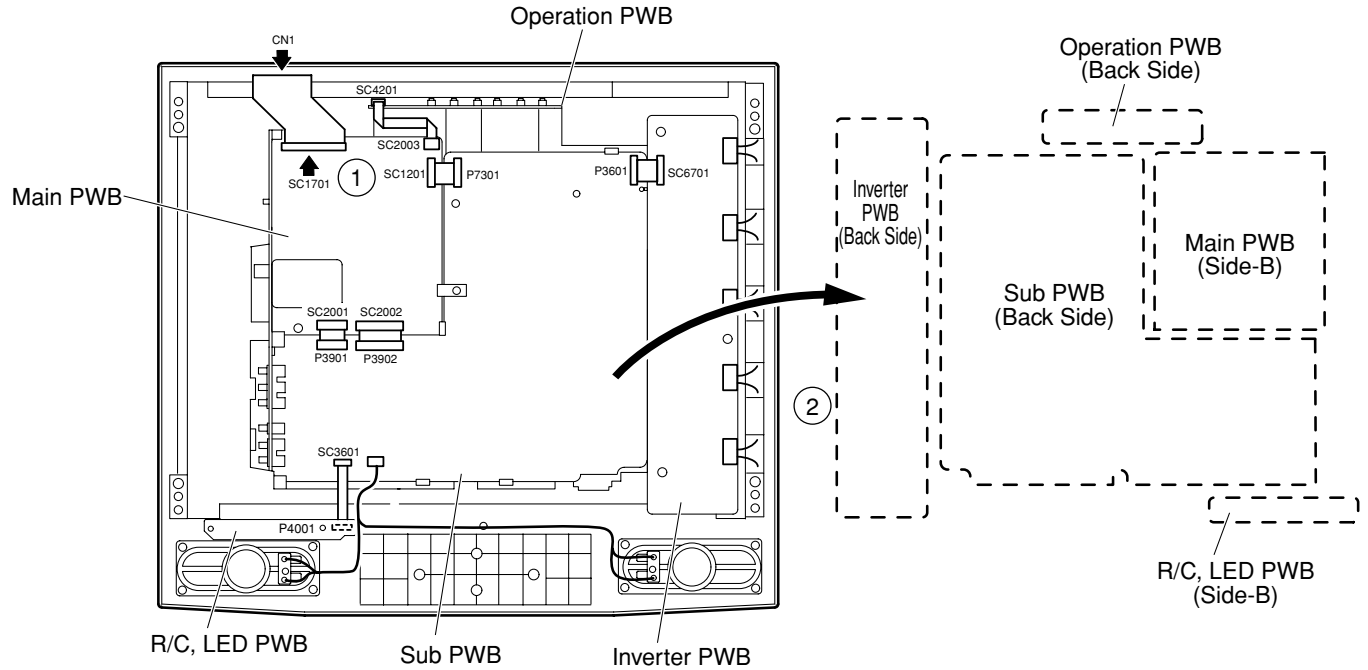


- Precautions in handling the LCD panels
 1. Work in a clean room (with humidities below 50%).
 2. Be sure to wear an anti-static armband.
 3. Handle the panels on an electro-conductive mat.
 4. Be careful not to fall, shake and shock the panels.
- 14. Detach the back shield.
- 15. Remove the 5 lock screws from the bezel and detach the bezel.
Note: Carefully undo the hooks in the four directions.
- 16. Detach the LCD panel from the backlight case.
Note1: Carefully undo the hooks in the four directions.
Note2: Do not remove the LCD panel from the panel chassis. Be careful not to touch the LCD panel's glass faces, driver IC, PWBs and other components with bare hands. (Otherwise defects may be caused in the production line.)
- 17. Remove the diffusion sheets (top), lens sheet, diffusion sheet (bottom), and diffusion plate.
Note: Fit the diffusion plate and sheets tightly in the backlight casing.
If set out of position, the panel may get cracked.
- 18. Detach the lamp unit from the backlight case.



● **Precautions at the time of the side-B(back) service of main, sub and Inverter unit.**

1. Remove only SC1701 of the FPC for connection between Main unit (SC1701) and LCD panel (CN1), and connect the extended cable (QCNW-C458WJQZ) for service.
2. Remove the PWB unit fixing screws. (main unit: 2 pcs., sub unit: 6 pcs., inverter unit: 3 pcs., operation unit: 3 pcs., R/C, LED unit: 2 pcs.)



Step	Part No.	Description
1	QCNW-C458WJQZ	Extension Cable 80-pin Main (SC1701)-LCD Panel (CN1)

ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replacement is performed, adjust as follows.

1. Preparations

(1) Plug the AC power cord directly into a wall outlet.

[1] Adjustment procedure

1-1. Adjusting the checker

Turning on the power (initialization) → Making the model and size settings → Transferring the model-related data to the setting E2PROM (I2C)

1-2. Adjusting the finish process

Final assembling → Turning on the power → Calling the adjustment process mode (bus connector) → Adjusting the common bias, TAMP, and white balance (cut-off and gain) settings

[2] Calling the checker mode/adjustment process mode

2-1. Calling the checker mode

* Keep KEY5 (pin (82) of microprocessor) at "L" and turn on the power.

KEY-4	KEY-5	Mode shift
H	H	Normal mode (Data is written and stored on EEP is brand-new.)
L	H	Shift to adjustment mode
H	L	Activated with the checker-oriented master ROM values (EEP still brand-new even after the checker mode)
L	L	The EEP gets initialized and the microprocessor's master values are written. (Process-adjusted settings not reprogrammed)

2-2. Calling the adjustment process mode

There are two ways to call this mode.

* Turn on the power and press the "ADJUST PROCESS" key on the remote controller.

* Keep KEY4 (pin (81) of microprocessor) at "L" and turn on the power.

* For servicing: Hold down the INPUT key and VOL (–) key at once, and turn on the power switch.

("K" appears at the top left of the screen to indicate the inspection process mode.)

→ Press the CH (✓) key and VOL (–) key at once. (The adjustment process mode screen shows up.) _ To quit, turn off the power. (Or turn off the power switch or turn off the remote controller.)

[3] Key operation in the adjustment process

Basic operation

Selecting the receiving channels

* Using the CH (∧)/(∨) keys, turn up and down an actual receiving channel.

Snap press: The channels are turned up and down one by one.

Continuous press: The next receivable channel is searched.

* Various adjustments The items are adjusted one by one by selecting on the menu screen and using the cursor key and VOL (+)/(–) keys.

* With the CURSOR UP/DOWN keys, select an adjustment item.

* Using the menu key, the adjustment items are selected one after another.

When the bottom item on a page is already selected and the menu key is pressed, the top item on the next page is selected.

* If any item on a page is selected and the preset key is pressed, the top item on the next page is selected.

Page 1 → Page 2 → Page 3 → Page 9 → Page 1 ...

* If any item on a page is selected and the manual memory key is pressed, the top item on the same page is selected.

* Using the CURSOR LEFT/RIGHT keys and VOL (+)/(–) keys, turn up and down the setting of a selected item.

Hierarchical shift

* When the ENTER key is pressed on any item other than I2C DATA on page 4, the setting page of the item shows up.

* To quit the setting page, press the front screen key.

[4] Initialization

- 4-1. Ground pins (81) and (82) of IC2001 (microprocessor) and turn on the power.
 4-2. Make sure the screen size is set at 20 inches.
 4-3. Make sure the model number is "A646AH".

(Adjustment Process Menu Page 1)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0	1																										
1		▶	M	O	D	E	L															A	6	4	6	A	H
2			I	N	C	H		S	I	Z	E														2	0	
3			E	R	R	O	R		N	O		R	E	S	E	T										0	
4			P	U	B	L	I	C		M	O	D	E											O	F	F	
4			E	X	T		C	O	N	T	R	O	L											O	F	F	
6																											

[5]

- 5-1. Model-by-model sending data
 Separately published.

5-2. ROM collection

Separately published.

[6] Adjustment

6-1. Common bias adjustment

- 1) Feed a built-in signal.
- 2) Apply the specified instrument at the center of the screen.
- 3) Observe the instrument output on an oscilloscope.
- 4) Adjust the "COM BIAS" setting on Adjustment Process Page 2 so that the peak-to-peak of the wave be minimized.

6-2. TAMP adjustment

- 1) Receive the standard colour bar signal.
- 2) See if the "Y" reading (maximum) on Adjustment Process Page 2 is within the range in the following table.
 If not, adjust the "NTSC TAMP" setting on the same page to have the "Y" reading (maximum) within this range.

Model	LC-20S5H/M/X
Setting (PAL)	155~158

Reference

(Adjustment Process Menu Page 2)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0	2																										
1		▶	C	O	M		B	I	A	S												4	5	0			
2			T	A	M	P		L														1	5	5			
3			Y	D	A	T	A															1	5	8			
4			T	A	M	P		H														1	5	8			
5			N	T	S	C		T	A	M	P												9	0			
6			P	A	L		T	A	M	P													9	6			
7			S	E	C	A	M		T	A	M	P											9	6			

Y Data
(White 75%)

6-3. White balance adjustment

1) Adjustment procedure

Adjust the RGB CUTOFF2 setting for white 40% first and then the RGB-GAIN setting for white 80%.

(1) Adjusting the test signal

[Input signal] White 80% (191 gradations) for the left of screen, and white 40% (92 gradations) for the right.

[Specification] RGB CUTOFF2 and RGB-GAIN settings on Adjustment Process Page 3.

		Adjustment spec.		Inspection spec.	
White 80%	x	0.264	0.002	0.01	Radius from the center
	y	0.273	0.002	0.01	Radius from the center
White 40%	x	0.274	0.003	0.01	Radius from the center
	y	0.279	0.003	0.01	Radius from the center

[Adjusting with the bus]

Gain (RGB-GAIN): Fix the G setting at "0". Vary the R and B settings accordingly. Adjustment range: ± 40

Cut-off (RGB CUTOFF2): Reduce the two strong colours
(Reading with Minolta CA-210) Adjustment range: Down to -40

[7] Factory settings

7-1. Making factory settings

Use the adjustment remote controller for the factory settings.

1) Hold down the remote controller's FACTORY SETTING key.

2) Several seconds later, "SETTING COMPLETE" appears at the center of the screen.

Now the settings are complete.

Model	Key Name	Remote Control Code				Sound-System	OSD Language Setting
LC-20S5H	SHIPMENT SETTING 1	1000	0011	1111	110	I	Chinese
LC-20S5M	SHIPMENT SETTING 2	1000	0000	1010	110	B/G	English
LC-20S5X	SHIPMENT SETTING 4	1000	0100	1001	110	B/G	English

[8] Lamp error detection

8-1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the followings occur.

(1) The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)

(2) If the situation 1 happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

8-2. Countermeasures

8-2-1. Check when turning OFF the lamp error detection

If the power has been turned off 5 times because of lamp error, hold down the unit's "INPUT" and "VOL (-)" key simultaneously and turn on the unit's power switch. The TV set gets back on power in the "K" mode.

In this state, press the unit's "VOL (-)" and "CH (✓)" key simultaneously. The Adjustment Process mode shows up.

This enables the operation check to detect errors in the lamp or lamp circuit.

Check whether "ERROR NO RESET" of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed.

8-2-2. Resetting of the lamp error count

After confirming that the lamp or lamp circuit is normal, reset the lamp error count. Select "ERROR NO RESET" of the adjustment process and set the number to 0 using the "LEFT" or "RIGHT" cursor key.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0	1																										
1			M	O	D	E	L															A	6	4	6	A	H
2			I	N	C	H		S	I	Z	E														2	0	
3			E	R	R	O	R		N	O		R	E	S	E	T										5	
4			P	U	B	L	I	C		M	O	D	E											O	F	F	
4			E	X	T		C	O	N	T	R	O	L												O	F	F
6																											

Reset 0

Afterwards, perform the operation check to confirm that the lamp error detection does not function.

TEST PATTERN IN THE ADJUSTMENT PROCESS MODE

IC1201 (LCD controller) test pattern

1) Getting the test pattern displayed

Call the adjustment process mode, select "DVP" on page 4, and press the ENTER button. Next select "DVP TEST PATTERN" in line 2 on page 1. (The "DVP TEST PATTERN" turns yellow.) Now use the cursor RIGHT/LEFT keys to get the test pattern displayed.

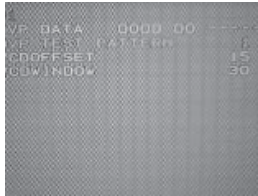
To quit the test pattern, enter "0" in the "DVP TEST PATTERN" setting. The test pattern is kept onscreen even by pressing the RETURN UP/DOWN buttons. The test pattern display is cancelled when the power is turned off, and the usual display appears instead when the power is turned on again.

2) Test pattern displayed

The following test pattern appears onscreen.

- The DVP test pattern comes in 22 different types.

1 Black & white (Size:Minimum)



2 Black & white (Size:Small)



3 Black & white (Size:Medium)



4 Black & white (Size:Large)



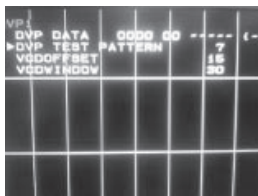
5 Crosshatch (Spacing:Minimum)



6 Crosshatch (Spacing:Small)



7 Crosshatch (Spacing:Medium)



8 Crosshatch (Spacing:Large)



9 Colour bar (Spacing:Minimum)



10 Colour bar (Spacing:Small)



11 Colour bar (Spacing:Medium)



12 Colour bar (Spacing:Large)



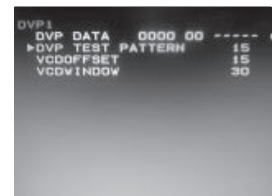
13 Lamp (Spacing:Small)



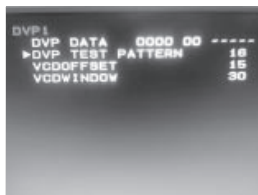
14 Lamp (Spacing:Medium)



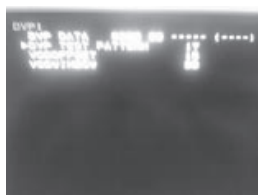
15 Vertical lamp (Spacing:Small)



16 Vertical lamp (Spacing:Medium)



17 Black-background pattern



18 White 100%



19 White 50%



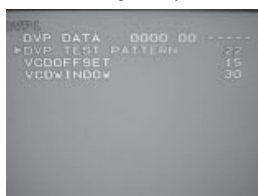
20 Red-background pattern



21 Green-background pattern



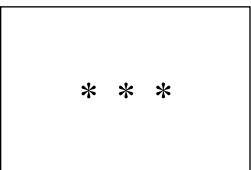
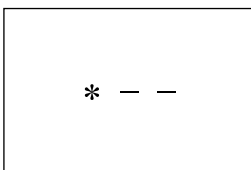
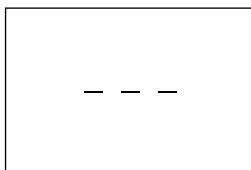
22 Blue-background pattern



PUBLIC MODE SETTING PROCEDURE

1. How to start Public Mode

- There are the following two ways to get the public mode setup screen displayed.
 - ① In the adjustment process mode, turn on "PUBLIC MODE". Also press the "CH (⤴)" and "VOL (+)" keys on the set at once and turn on the power.
 - ② 1) Press the "INPUT" and "VOL (+)" keys on the set at once and turn on the power.
2) Get the password input screen displayed.



Procedure

- The input starts with the leftmost digit.
- Use the numeric keys [1] thru [9] and [10/0] keys on the remote controller. The other keys are not acceptable.
- With a numeric-key input, "-" will change to "*". The input position will move one digit to the right.
- With all the 3 digits entered, the password will be verified.

- 3) The 3-digit password is now verified.

The password [0] [2] [7] provides for the public mode screen. (This screen comes on with whatever adjustment process settings.)

With any other passwords, the screen changes to the normal mode.

2. How to exit Public Mode

There are the following ways to quit the public mode setup screen.

- Turn off "PUBLIC MODE" in the adjustment process mode. (☆) ← This way alone is not for quitting the setup screen, but for quitting the mode itself.
- Turn off the power with the "POWER" key. (★)
- Select "ENTER". (★)
- Move the cursor to "RESET" and press the "FLASHBACK" key. (Back to the normal mode screen)(☆)

★ ... "PUBLIC MODE" stays on in the adjustment process mode.

☆ ... The settings will be back to the factory ones.

3. Public Mode Setting Values

- With the factory settings made, the public mode settings get initialized. (The adjustment process remains intact.)

4. Public Mode Menu

The guidance is not displayed onscreen.

Setup procedure

- To move the cursor up and down, use the "cursor UP/DOWN" key (remote controller) and "CH (∧)/(∨)" key (remote controller and set).
- To change the settings, use the "cursor RIGHT/LEFT" key (remote controller) and "VOL (+)/(-)" key (remote controller and set).
- To save new settings, keep the cursor at "Enter" and use the "cursor RIGHT/LEFT" key (remote controller) and "VOL (+)/(-)" key (remote controller and set).

PUBLIC MODE	
MAXIMUM VOLUME	[60]
VOLUME FIXED	[VARIABLE]
VOLUME FIXED LEVEL	[20]
RC BUTTON	[RESPOND]
PANEL BUTTON	[RESPOND]
MENU BUTTON	[RESPOND]
ON SCREEN DISPLAY	[YES]
INPUT MODE START	[NORMAL]
INPUT MODE FIXED	[VARIABLE]
RESET	
COPY MAIN ► EEPROM	[STANDBY]
COPY EEPROM ► MAIN	[STANDBY]
ENTER	

5. On Setting Items

(1) MAXIMUM VOLUME

Selection	Adjustment from 1 to 60 (no loop)
Default	60
Explanation	Sound volume can not be adjusted higher than the preset value.
Limit in Setting	<ul style="list-style-type: none"> When the sound volume is set lower than 59, only figures are displayed and the sound volume bar is not displayed.
Exception	<ul style="list-style-type: none"> In the item "VOLUME" of adjustment process, the sound volume can be set freely irrespective of this setting.
Remarks	<ul style="list-style-type: none"> Setting is valid only for the speakers of the unit. (As for the headphone, the sound volume can be set up to 60 irrespective of the limit.) In line output (sound volume variable), the sound volume can be adjusted from -60 to 0 irrespective of pre-adjusted value. When the sound volume is set higher than the MAX setting by the adjusting process or headphone, the sound volume control operation is prohibited for turn-up and the sound volume should be turned down to MAX in this state.

(2) VOLUME FIXED

Selection	Selection between "Variable" and "Fixed" (loop provided)
Default	Variable
Explanation	Sound volume is fixed and made invariable.
Limit in Setting	<ul style="list-style-type: none"> The sound volume for the ON-timer (Wake up timer) is fixed also without display of menu. Besides, the setting is made impossible. (Basically, the menu is not displayed.) The following keys become invalid: <ul style="list-style-type: none"> Sound volume Up/Down (VOL +/-) [for both remote control and the unit] Mute (MUTE)
Exception	<ul style="list-style-type: none"> In the item "VOLUME" of adjustment process, the sound volume can be set freely irrespective of this setting.
Remarks	<ul style="list-style-type: none"> In "Variable" setting, the sound volume had been conventionally set at 1 but this operation has been abolished (and follows the last memory). The sound volume for the ON-time is not set at 1 either and the sound volume set value of the ON-timer before executing the hotel mode is held. Setting is valid only for the speakers of the unit. (As for the headphone, the sound volume can be set up to 60 irrespective of the limit.) In line output (sound volume variable), the sound volume can be adjusted from -60 to 0 irrespective of pre-adjusted value. As for sound volume fixing and sound volume MAX level, the sound volume fixing has priority. Once the sound volume has been changed by adjustment process or headphone, it should be set back to the sound volume preset by sound volume fixing level when the adjustment process ends or when the headphone is removed.

(3) VOLUME FIXED LEVEL

Selection	Adjustment from 1 to 60 (no loop)
Default	10
Explanation	The sound volume to be fixed by "Volume fixed" is determined.
Limit in Setting	None
Exception	None
Remarks	<p>Setting is valid only when "Volume fixed" is selected for "fixed".</p> <p>This must be confirmed actually by changing also the sound volume in accordance with setting.</p>

(4) R/C BUTTON

Selection	Selection between "Respond", "Limited" and "No respond" (loop provide)
Default	Respond
Explanation	Keys acceptable by remote control are limited or reception of keys can be prohibited.
Limit in Setting	① In "limited" setting, only power ON/OFF, sound volume ▲▼, tuning ▲▼ and BACKLIGHT (brightness sensor) are accepted. ② In "No respond" setting, all the keys (including the power key) are not accepted.
Exception	<ul style="list-style-type: none"> Adjustment process, factory setting, inspection process and hotel only keys are valid irrespective of setting. All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

(5) PANEL BUTTON

Selection	Selection between "Respond" and "No respond" (loop provide)
Default	Respond
Explanation	All the operations by keys (except the power key) of the unit can be invalidated.
Limit in Setting	
Exception	<ul style="list-style-type: none"> Inspection mode and hotel menu mode can be started irrespective of setting. All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

(6) MENU BUTTON

Selection	Selection between "Respond" and "No respond" (loop provide)
Default	Respond
Explanation	In "No respond" setting, the menu operation by the menu key of the remote control and the menu key of the unit are invalidated.
Limit in Setting	<ul style="list-style-type: none"> ON-timer (Wakeup Timer) is turned OFF. The following keys become invalid. Wake-up timer and clock setting keys and all of the direct change keys to menu display
Exception	<ul style="list-style-type: none"> Inspection mode and hotel menu mode can be started irrespective of setting. All the keys can be used in adjustment process, inspection mode and hotel menu irrespective of setting.
Remarks	

(7) ON SCREEN DISPLAY

Selection	Selection between "Yes" and "Limited" (loop provide)
Default	Yes
Explanation	The following OSD displays are made ineffective. Displays of menu group, channel call, sound volume bar and direct key call
Limit in Setting	<ul style="list-style-type: none"> Set time of the OFF-timer (SLEEP TIMER) is cleared. Setting of the no-signal power-OFF (AUTO POWER OFF) is cleared to "OFF". Setting of the no-operation power-OFF is cleared to "OFF". Keys falling under any of the following items become invalid. <ul style="list-style-type: none"> ① Appearance of screen changes and the sound changes. ② Personal functions which are hard to restore. Ex.) Screen display, menu, OFF-timer, AV MODE, screen size switching, treble emphasis, AUDIO ONLY, sound changeover, LANGUAGE, CLOSED CAPTION
Others	<ul style="list-style-type: none"> Simple input switching is generated. Those which are restored soon after leaving as they are and may be requested for change by customer are not prohibited. Ex.) Brightness sensor (BACKLIGHT) and PIC. FLIP
Exception	<ul style="list-style-type: none"> Such a caution which is displayed independently is displayed as it is. Non-responding signal caution, V-Chip caution and power-ON fixing caution
Remarks	

(8) INPUT MODE START

Selection	Selection between "Normal" , "TV (CH*)" , "COMPONENT" , "AV1" and "AV2" (loop provide)
Default	Normal
Explanation	In power-ON, the input source to be started or channel can be set. (In standard mode, the operation follows the last memory.)
About options	<ul style="list-style-type: none"> • All the input sources in the model are made selectable. • When the input/output switchable input source is selected and the input source is set to output, the setting of input/output switching is changed to input at the execution of hotel menu. In addition, the input/output switching by menu is prohibited. • In TV mode, the display of all channels is stopped and it is treated as an input source. At this time, the channel to be set follows the last memory and the content of the last memory is included in the notation by options. Ex.) TV (CH2), TV (CH4) etc. • The order of appearance of options in the hotel menu should agree with the order of toggles by input switching key.
Limit in Setting	• The display of channel setting menu and the channel setting operation are prohibited (except for MCL).
Exception	• In the start by "ON-timer (Wake-up timer)", the channel set by ON-timer (Wake-up timer) has priority.
Remarks	• In setting at "Normal", the setting of "Input mode fixed" is changed to "Variable" and selection should be prohibited.

(9) INPUT MODE FIXED

Selection	Selection between "Variable" and "Fixed" (loop provide)
Default	– (Variable)
Explanation	The input mode is fixed at the input source or the channel set at the "Input mode start" in 9 and other input sources and channels can be made non-selectable.
Limit in Setting	<ul style="list-style-type: none"> • With the execution of hotel mode, the input source is forced to change to that set by "Input mode start" and the channel switching and input switching are prohibited thereafter. • ON-timer's (Wake-up timer) channel items are not displayed or the operation is prohibited. (Basically, they are not displayed.) • The following keys are invalidated. CH ▲▼, direct tuning button, FLASHBACK, input *However, the keys (input switching and CH ▲▼ keys) of the unit for menu operation remain valid.
Exception	None
Remarks	<ul style="list-style-type: none"> • In the following case, setting is cancelled and mode is changed to "Variable". ① When the setting of "Input mode start" is set to "Standard (Normal)"

Copy of CH Data and Public Mode Data

- ① It is possible to copy CH Data and Public Mode Data as below method.

1)CH Data

- CH Frequency
- Colour System
- Sound System
- CH Skip
- Nicam Mode
- A2 Mode

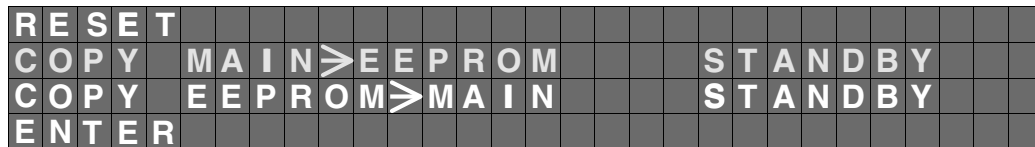
2)Public Mode Data

- Adjustment Process Menu
PUBLIC MODE
- PUBLIC MODE Menu
 - MAXIMUM VOLUME
 - VOLUME FIXED
 - VOLUME FIXED LEVEL
 - RC BUTTON
 - PANEL BUTTON
 - MENU BUTTON
 - ON SCREEN DISPLAY
 - INPUT MODE START
 - INPUT MODE FIXED

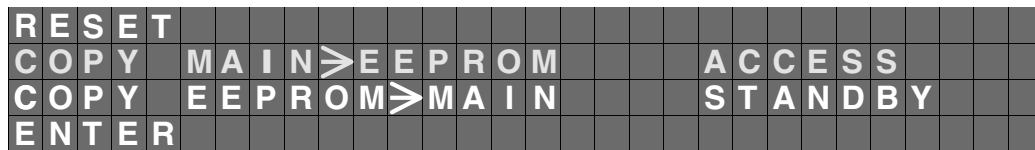
- ② Change of OSD indication

*Change of OSD indication is same as "COPY MAIN \Rightarrow EEPROM" and "COPY EEPROM \Rightarrow MAIN".

a) In case of successful data copy



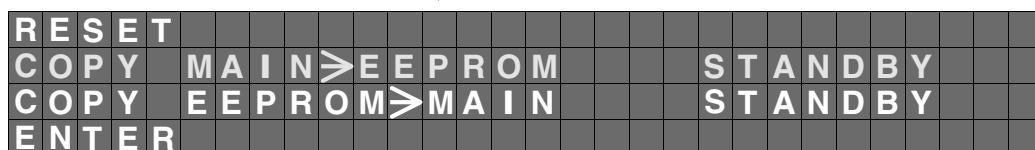
- Push the "cursor RIGHT/LEFT" key of remote controller



- Start to copy data
- Change from "STANDBY" to "ACCESS" during data copy.



- Change from "ACCESS" to "OK" in case of successful data copy.



- Push "OK" key (remote controller)
- Change from "OK" to "STANDBY".

b) In case of unsuccessful data copy

[illegible]

- Push the "cursor RIGHT/LEFT" key of remote controller

[illegible]

- Start to copy data
- Change from "STANDBY" to "ACCESS" during data copy.

[illegible]

- Change from "ACCESS" to "NG" in case of unsuccessful data copy.

[illegible]

- Push "OK" key of remote controller.
- Change from "NG" to "STANDBY".

c) In case of unconnected data copy jig.

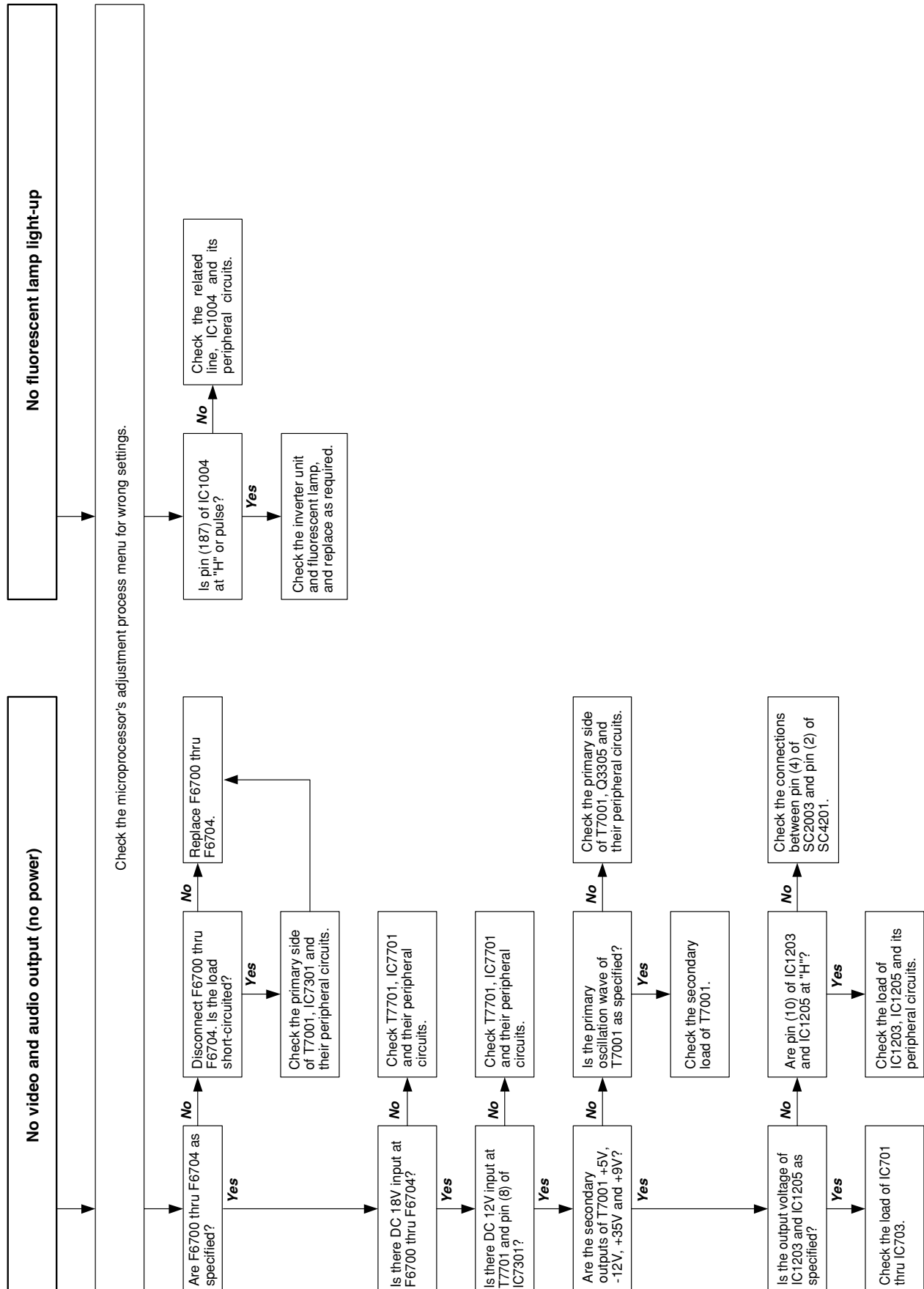
[illegible]

- Push the "cursor RIGHT/LEFT" key of remote controller

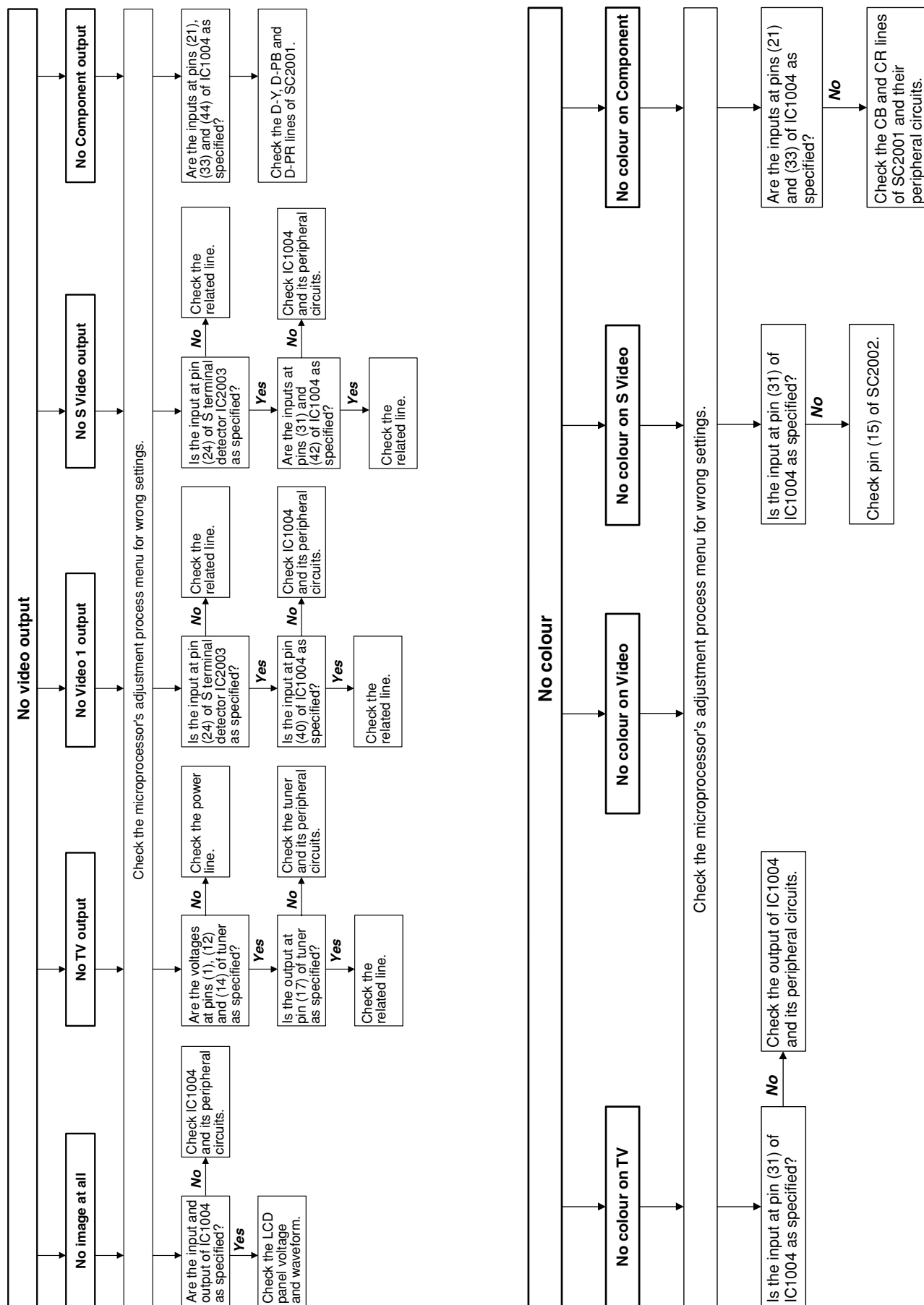
[illegible]

- Change from "STANDBY" to "NG".
- Push "OK" key of remote controller.
- Change from "NG" to "STANDBY".

TROUBLE SHOOTING TABLE



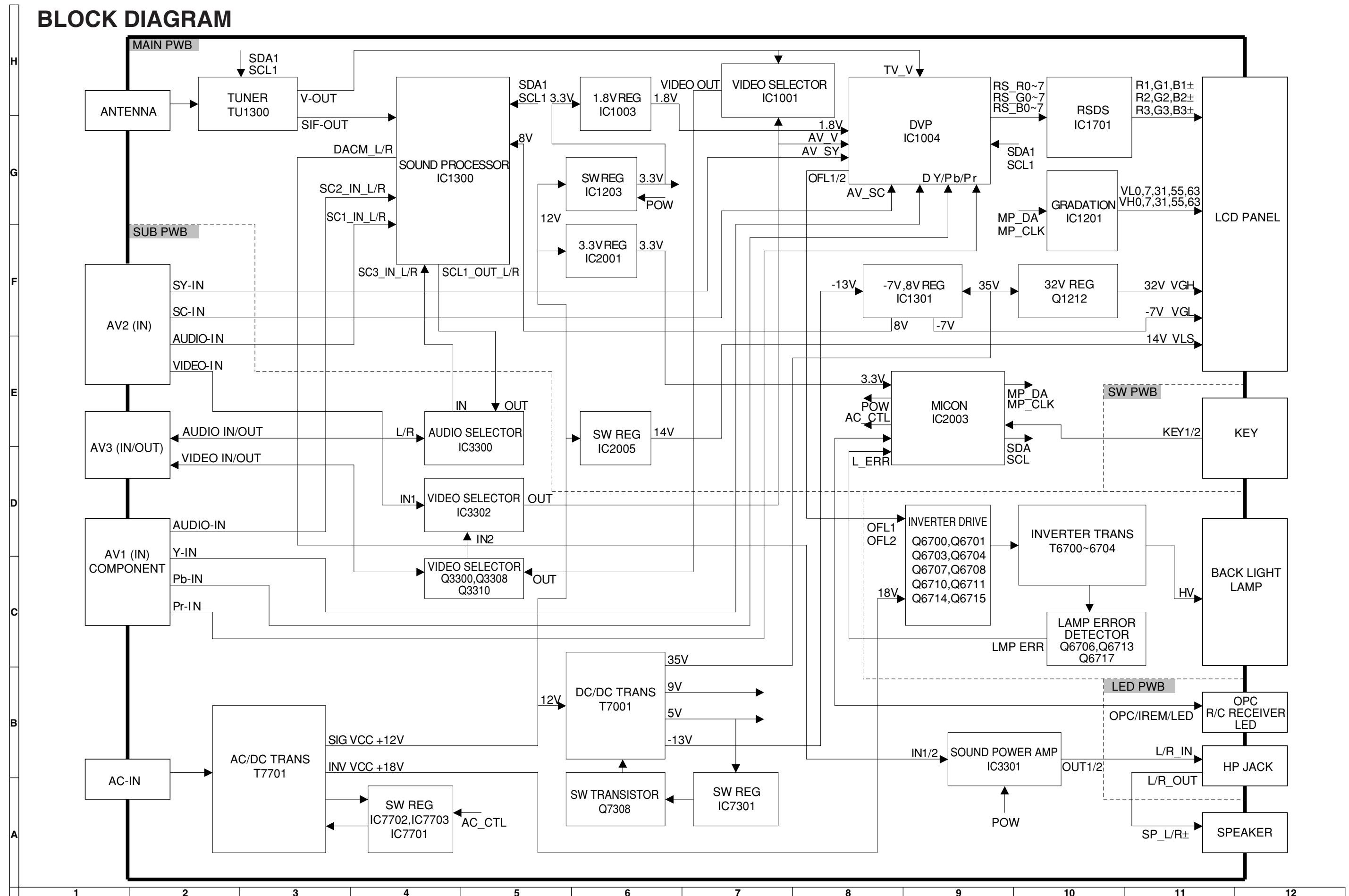
TROUBLE SHOOTING TABLE (Continued)



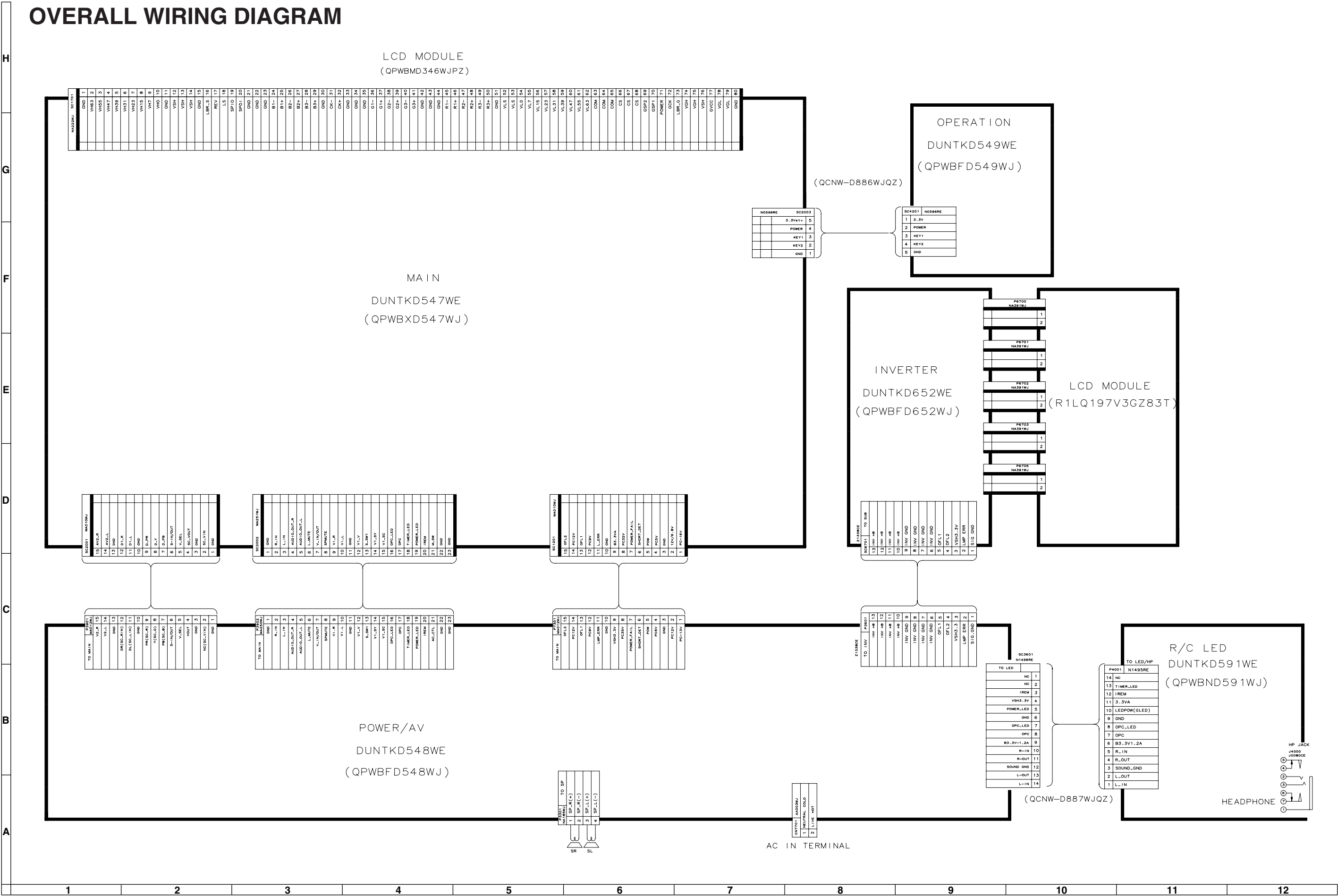
TROUBLE SHOOTING TABLE (Continued)

No audio output											
<p>No sound from right and left speakers</p> <p>Is sound heard in any input mode (TV, Video or Component)?</p> <p>Yes</p> <p>Check the following points.</p> <ol style="list-style-type: none"> 1 Is the monitor output set at "AUDIO VARIABLE"? 2 Is the volume control at minimum? 3 Is the sound mute? 4 Is the headphones disconnected? <p>Is the voltage at pin (7) (power input terminal) of IC3301 as specified (about +12.5V)?</p> <p>Yes</p> <p>Is the voltage at pin (5) (standby control terminal) of IC3301 as specified (about +2V)?</p> <p>Yes</p> <p>Is the power voltage of each circuit as follows?</p> <table border="1"> <tr> <td>Pin (39) of IC1300</td><td>About +8V</td></tr> <tr> <td>Pins (65) and (66) of IC1300</td><td>About +5V</td></tr> <tr> <td>Pins (11), (12) and (13) of IC1300</td><td>About +3.3V</td></tr> </table> <p>Yes</p> <p>Are there the specified control signal inputs at the following pins of IC1300?</p> <table border="1"> <tr> <td>Pin (2) of IC1300 SCL1</td><td></td></tr> <tr> <td>Pin (3) of IC1300 SDA1</td><td></td></tr> </table> <p>Yes</p> <p>Are the oscillation waveforms at pins (71) and (72) of IC1300 as specified?</p> <p>Yes</p> <p>Are there audio signal outputs from pins (27)(Rch) and (28)(Lch) of IC1300?</p> <p>Yes</p> <p>Check the lines from pins (27)(Rch) and (28)(Lch) of IC1300 to pins (4)(Rch) and (2)(Lch) of IC3301.</p>	Pin (39) of IC1300	About +8V	Pins (65) and (66) of IC1300	About +5V	Pins (11), (12) and (13) of IC1300	About +3.3V	Pin (2) of IC1300 SCL1		Pin (3) of IC1300 SDA1		<p>Check the following points.</p> <ol style="list-style-type: none"> 1 No TV sound: Check Q1300, Q1301, TU3401 and their peripheral circuits. 2 No Video 1 input sound: Check the line from SC2002 to pins (56) and (57) of IC1300. 3 No Component input sound: Check the line from SC2001 to pins (53) and (54) of IC1300. <p>No</p> <p>Do the following.</p> <ol style="list-style-type: none"> 1 Set the monitor output at "AUDIO FIXED". 2 Turn up the volume control. 3 Clear the sound mute. 4 Disconnect the headphones. <p>No</p> <p>Check the line from power circuit to pin (7) of IC3301.</p> <p>No</p> <p>Check the line from pin (72) of IC2003 to pin (5) of IC3301.</p> <p>No</p> <p>Check the following points.</p> <ul style="list-style-type: none"> +8V line: Check the line from IC1301 to pin (39) of IC1300. +5V line: Check the line from pin (4) of SC1201 to the +5V input line of IC1300. +3.3V line: Check the line from IC1203's peripheral circuit to the +3.3V line of IC1300. <p>No</p> <p>Check the line from pins (29) and (30) of IC2003 to pins (2) and (3) of IC1300.</p> <p>No</p> <p>Check X1300 and its peripheral circuits.</p> <p>No</p> <p>Check IC1300 and its peripheral circuits.</p>
Pin (39) of IC1300	About +8V										
Pins (65) and (66) of IC1300	About +5V										
Pins (11), (12) and (13) of IC1300	About +3.3V										
Pin (2) of IC1300 SCL1											
Pin (3) of IC1300 SDA1											
<p>No sound from monitor output</p> <p>Check the following points.</p> <ol style="list-style-type: none"> 1 Is the sound heard from the speakers? 2 Is the monitor output properly connected? 3 Is the sound mute? <p>Yes</p> <p>Are there audio signal outputs from pins (36)(Rch) and (37)(Lch) of IC1300?</p> <p>Yes</p> <p>Is the collector signal of Q3901 at "L"?</p> <p>Yes</p> <p>Check the lines from pins (36)(Rch) and (37)(Lch) of IC1300 to pins (2)(Rch) and (4)(Lch) of IC3903.</p>	<p>Do the following.</p> <ol style="list-style-type: none"> 1 Go to "No sound from speakers". 2 Reconnect the monitor output properly. 3 Clear the sound mute. <p>No</p> <p>Check IC1300 and its peripheral circuits.</p> <p>No</p> <p>Check the line from pin (58) of IC2003 to Q3901, Q3902 and Q3903.</p>										

BLOCK DIAGRAM



OVERALL WIRING DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on the stable supply voltage of AC 110-240V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted.
(K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.
(K= ± 10%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.

CAPACITOR

1. All capacitors are μF, unless otherwise noted.
(P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. **DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.**
2. **SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.**

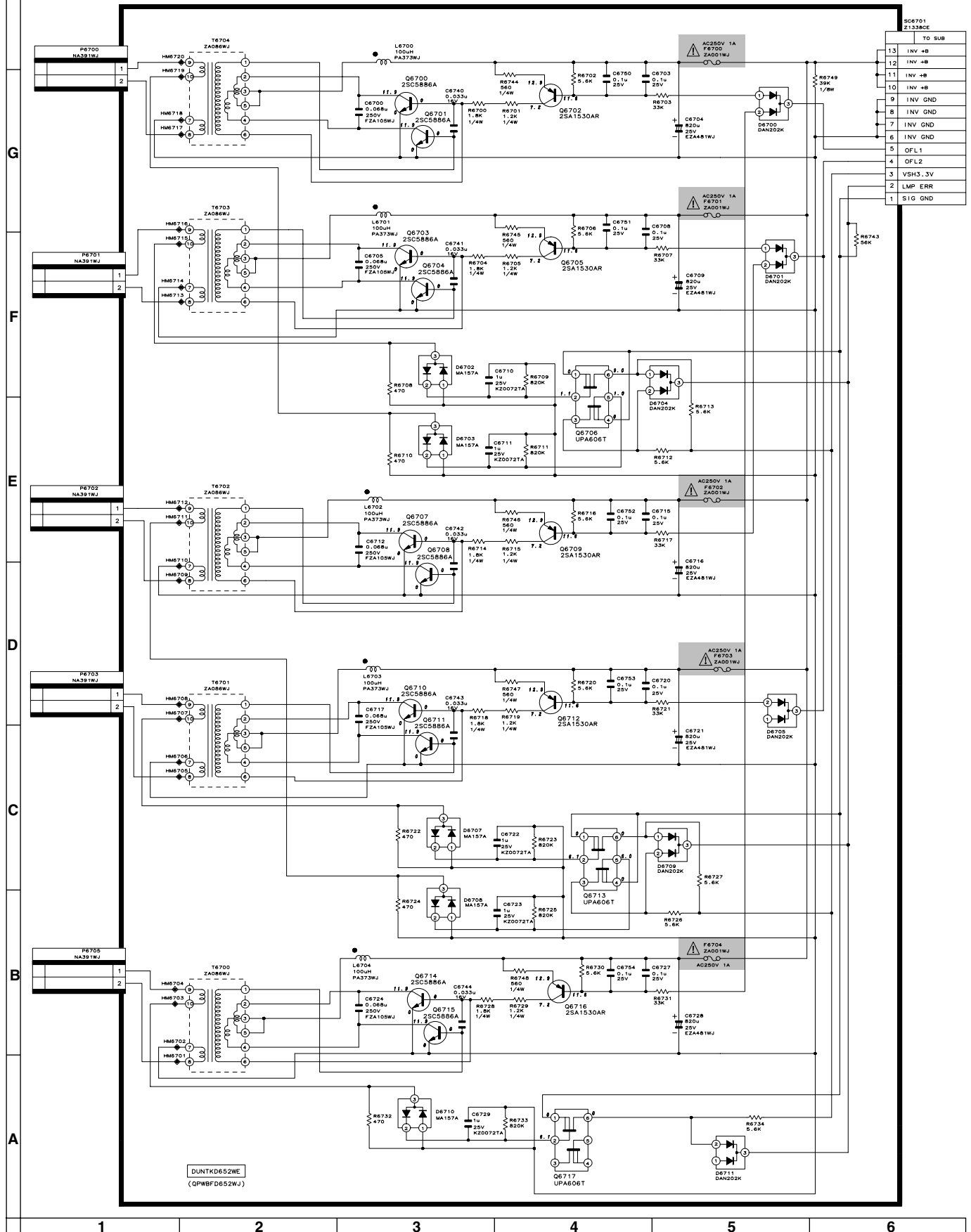
IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SCHEMATIC DIAGRAM

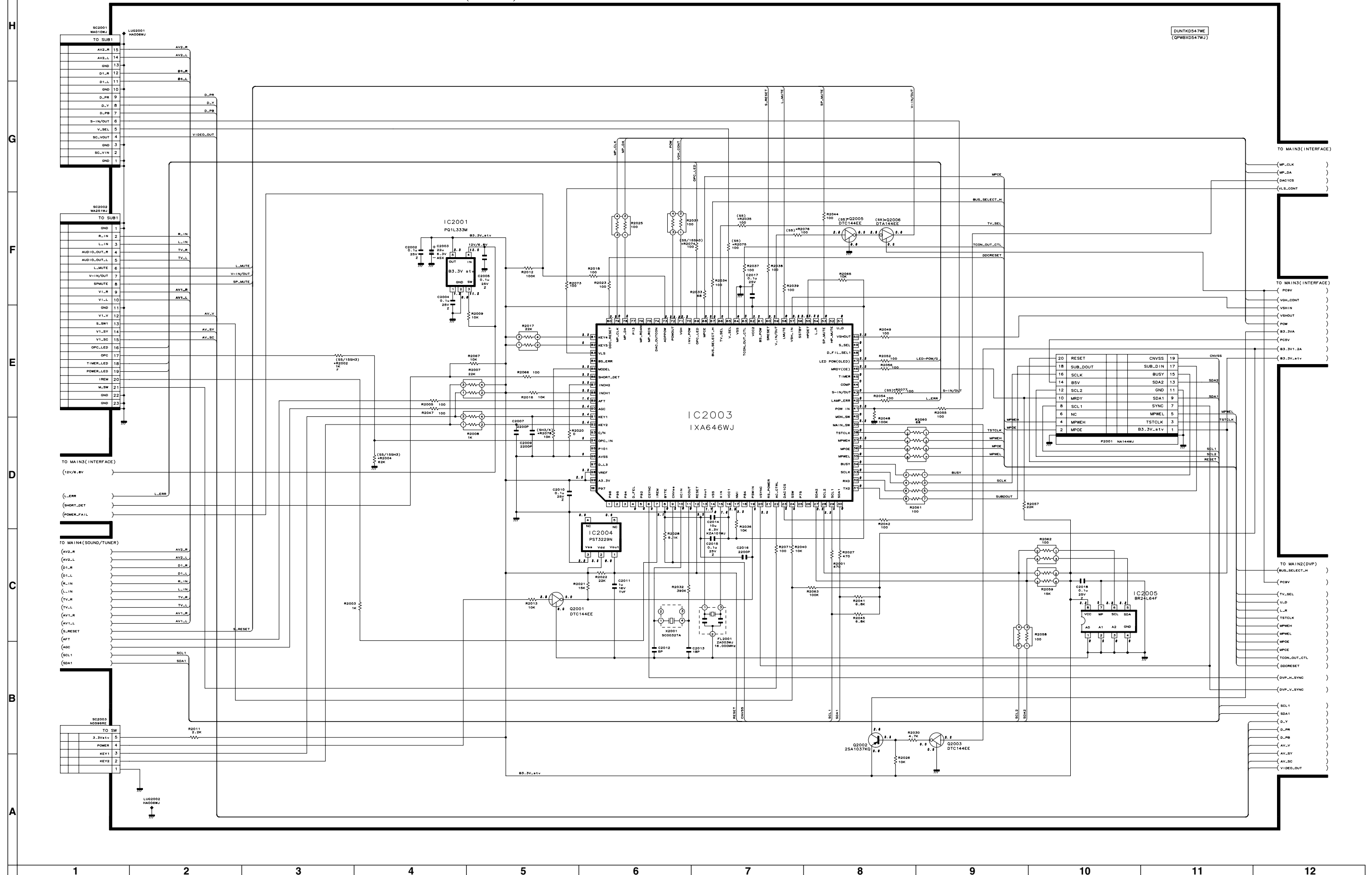
■ INVERTER Unit

INVERTER(20)



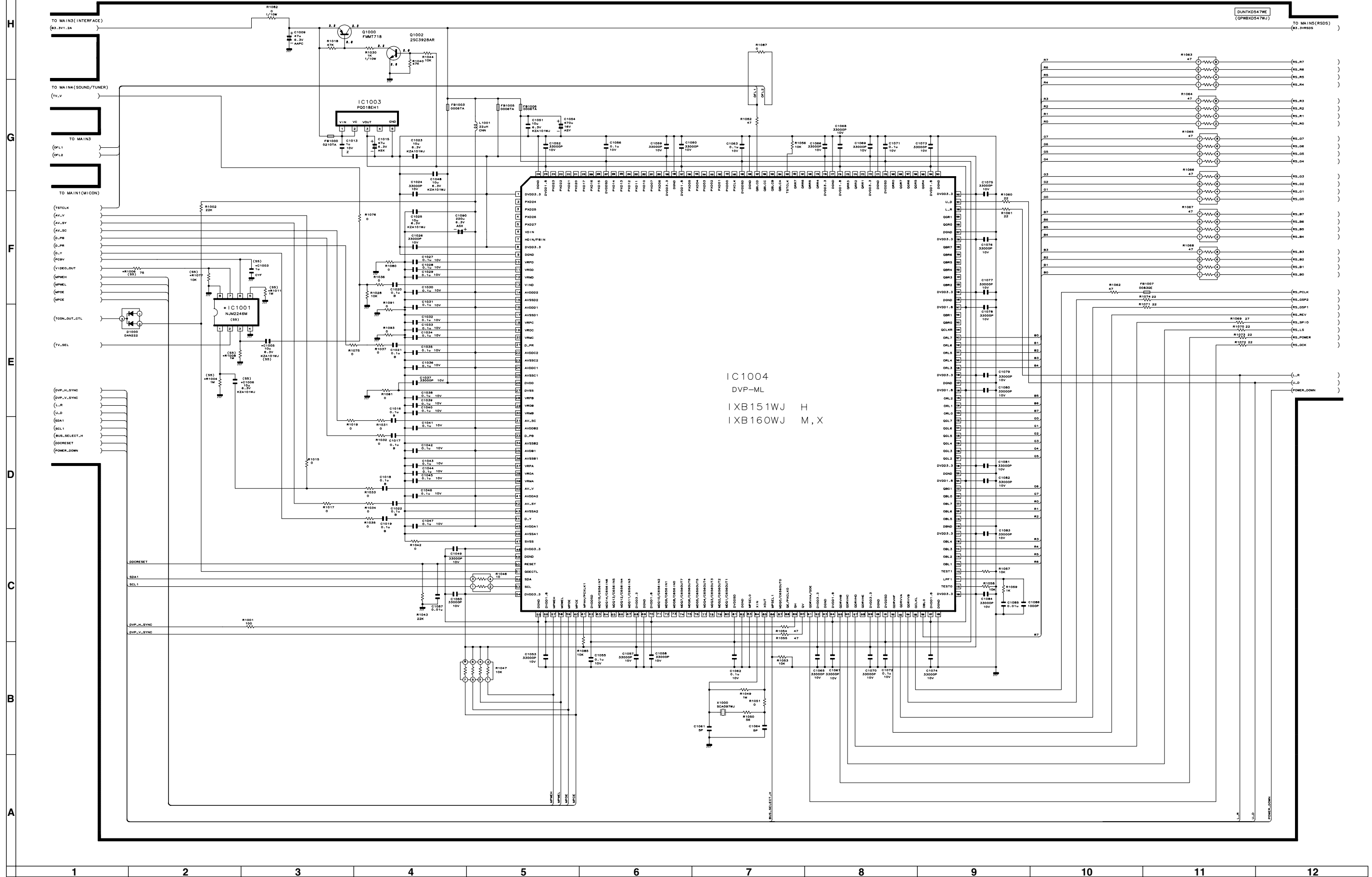
■ MAIN Unit-1/5

MAIN1 (MICON)



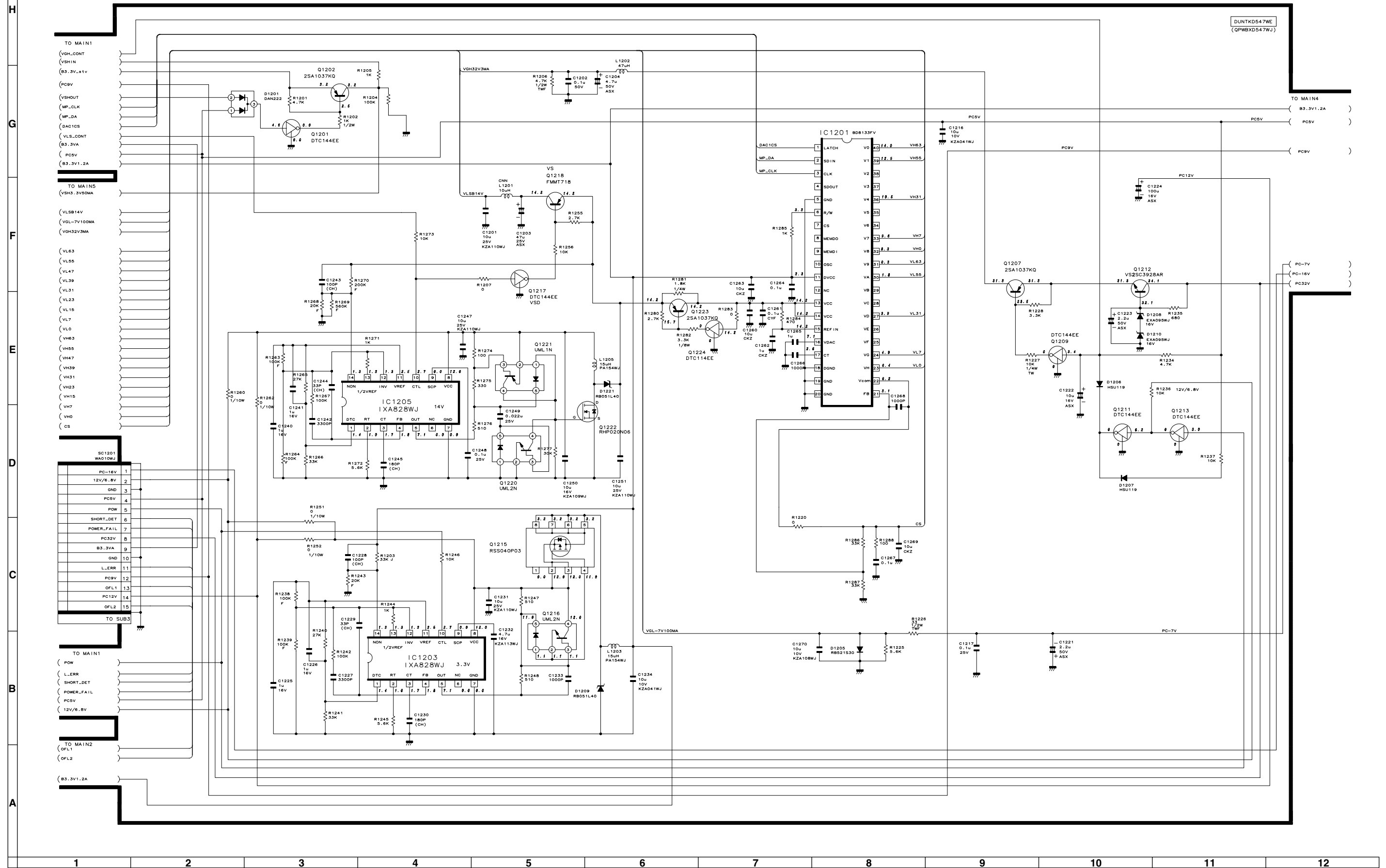
MAIN Unit-2/5

MAIN2 (DVP)



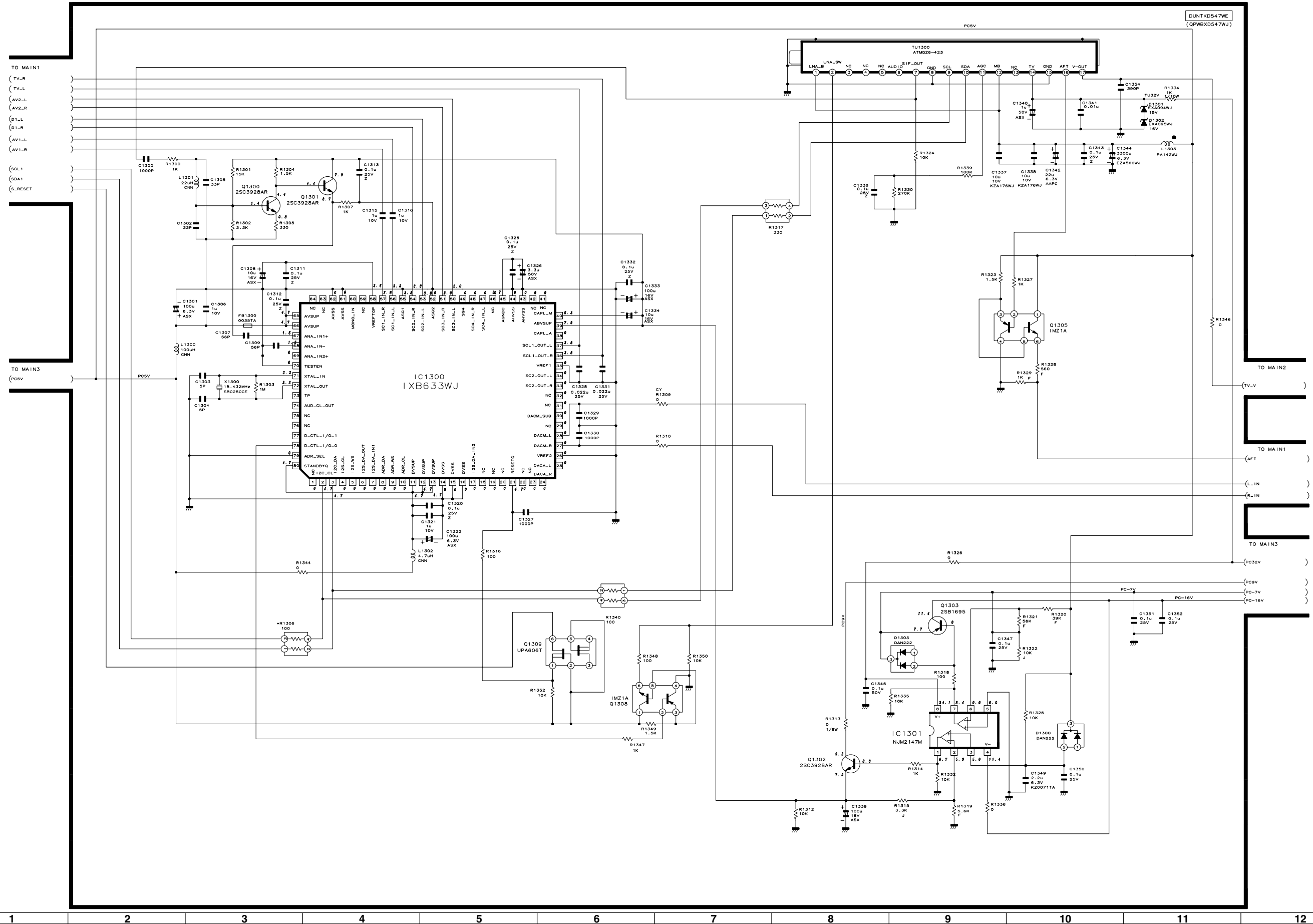
MAIN Unit-3/5

MAIN3 (INTERFACE)



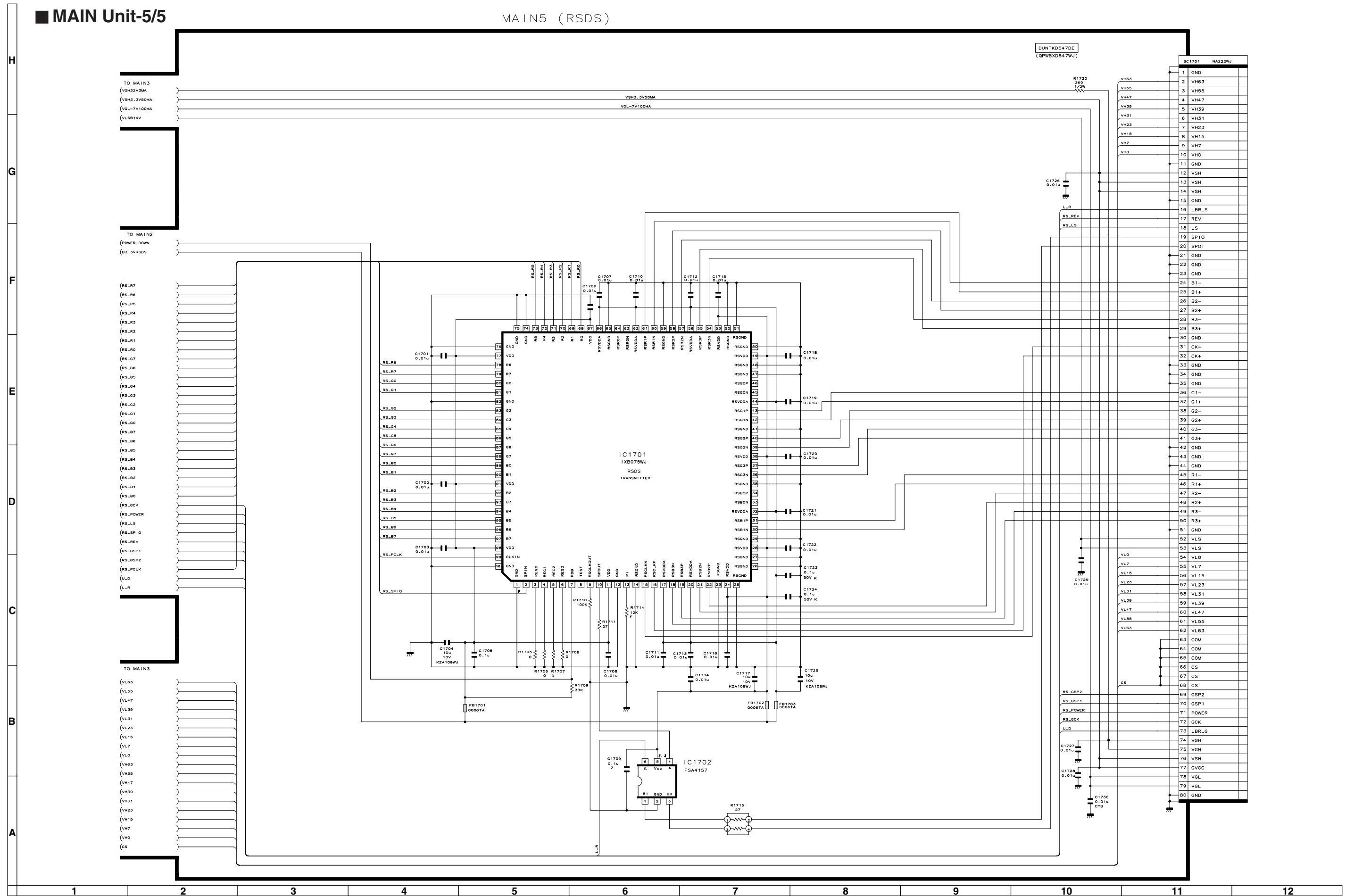
MAIN Unit-4/5

MAIN4 (SOUND/TUNER)



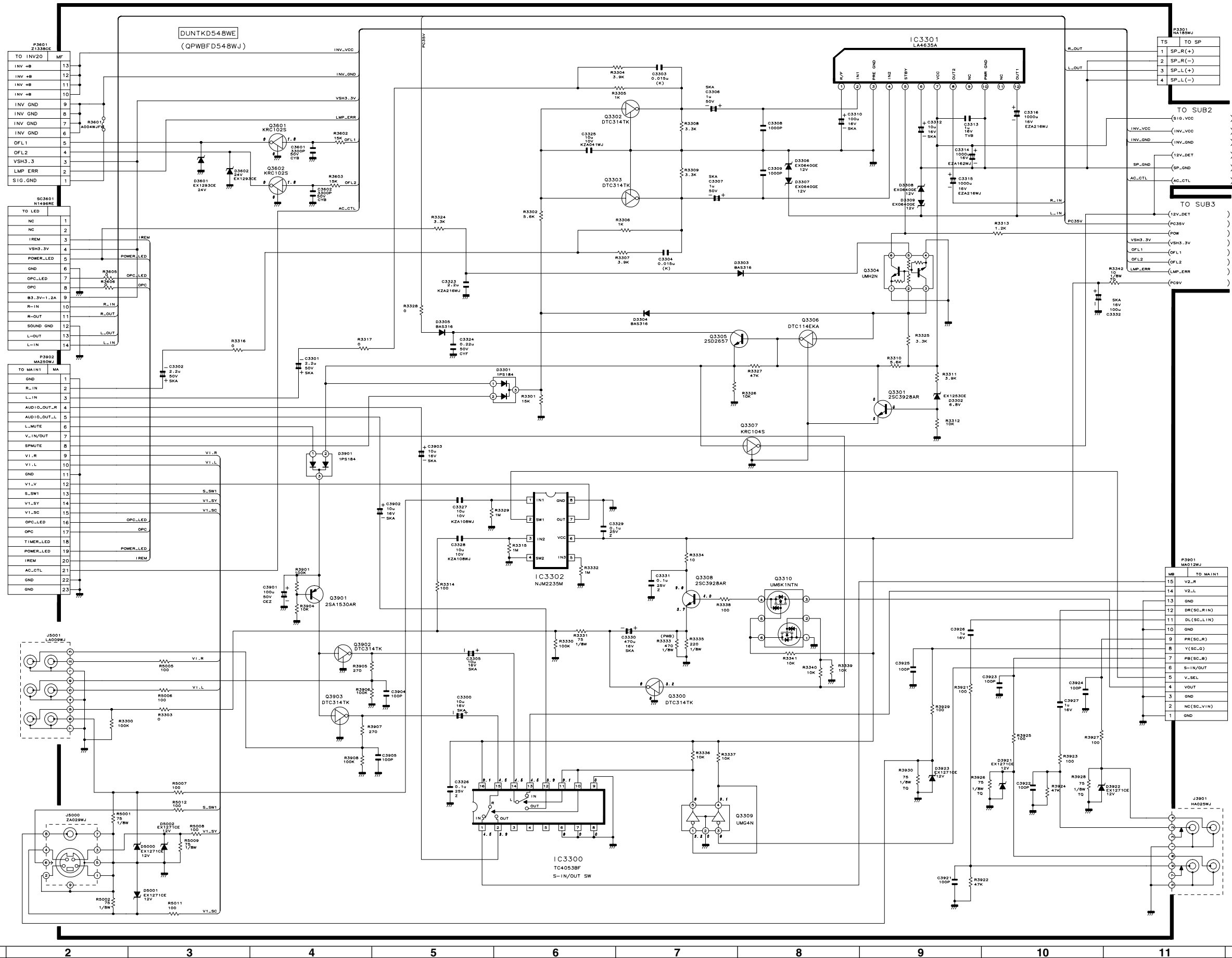
MAIN Unit-5/5

MAIN5 (RSDS)

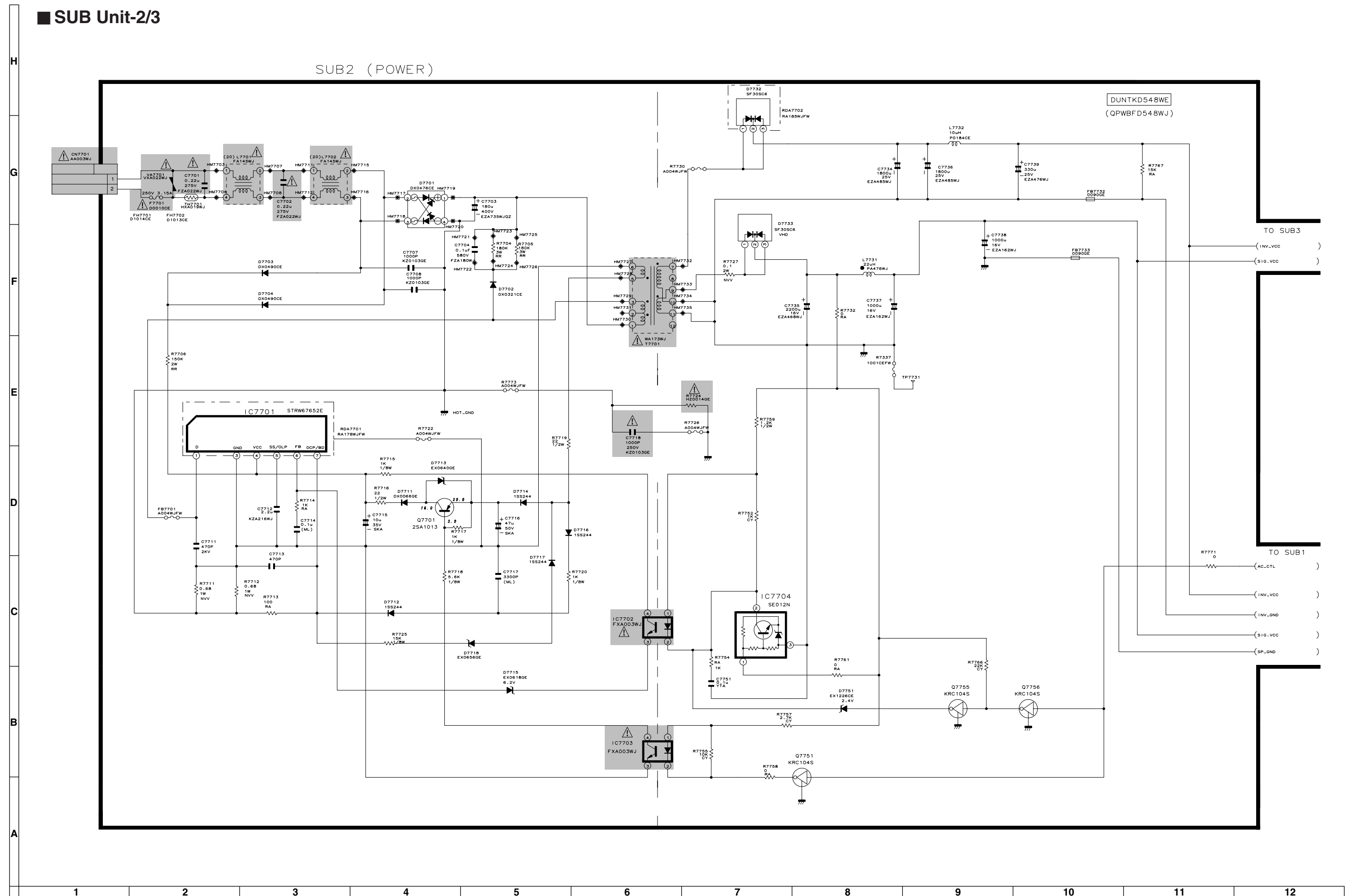


■ SUB Unit-1/3

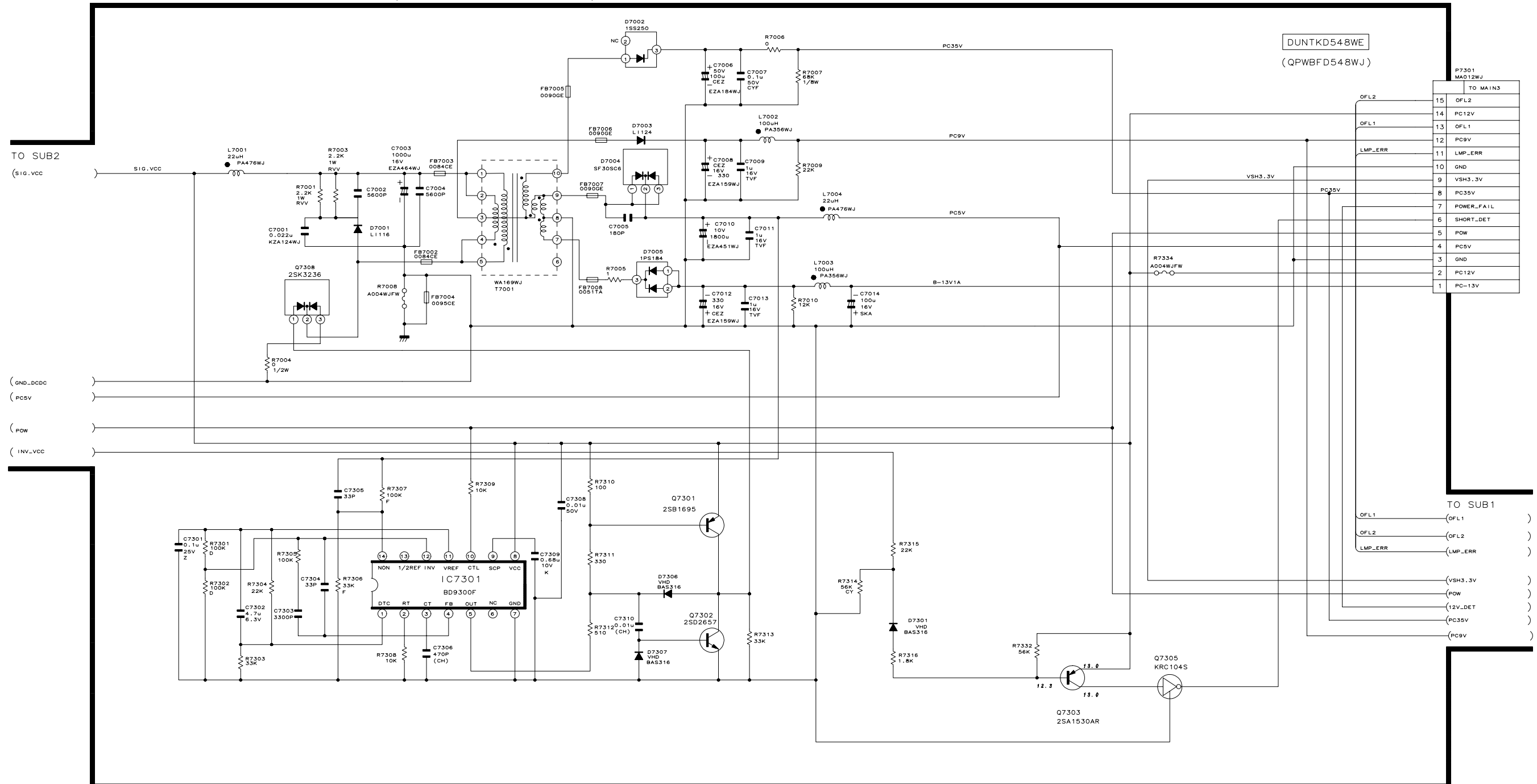
SUB1 (AV_TERMINAL)



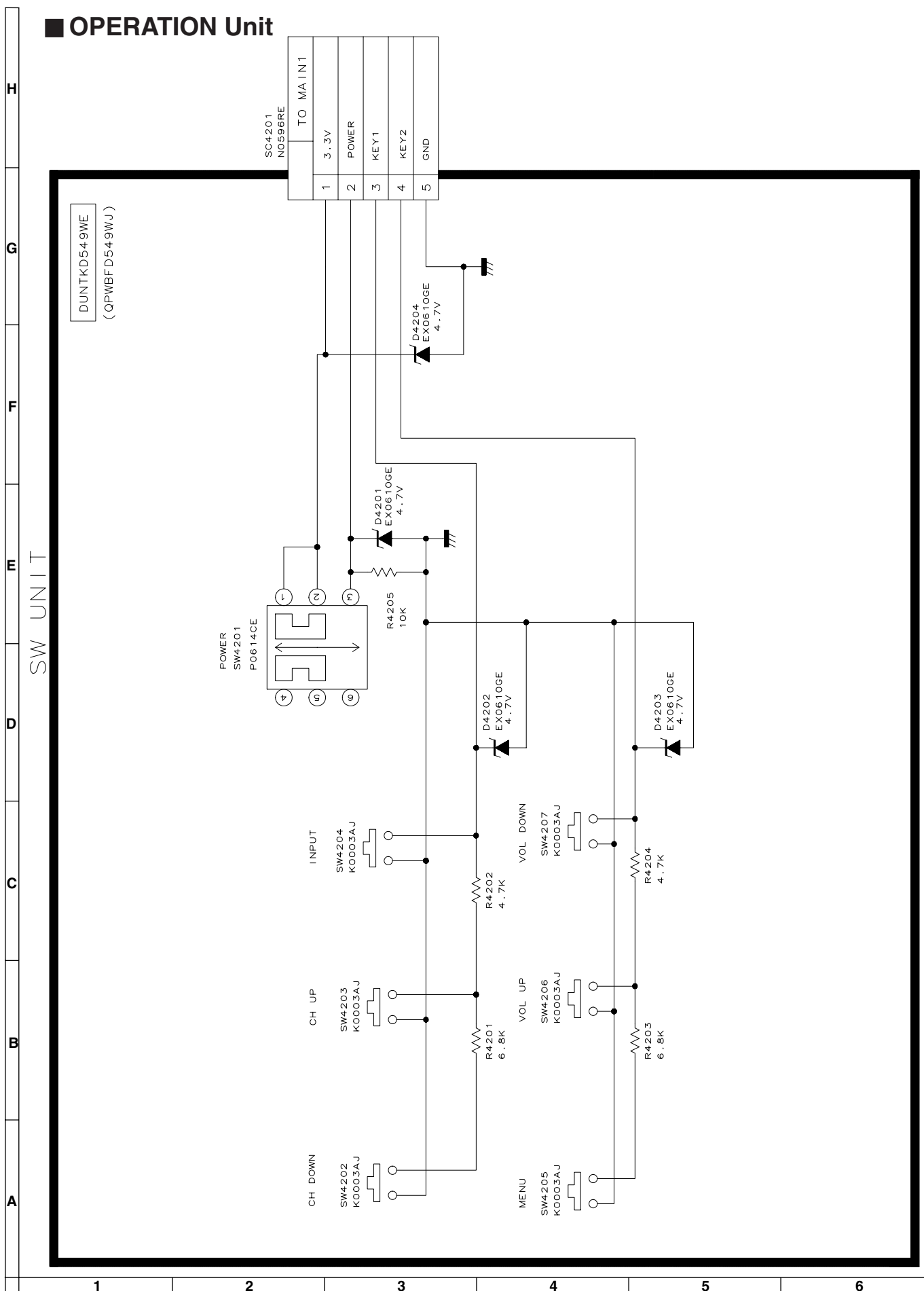
■ SUB Unit-2/3



■ SUB Unit-3/3

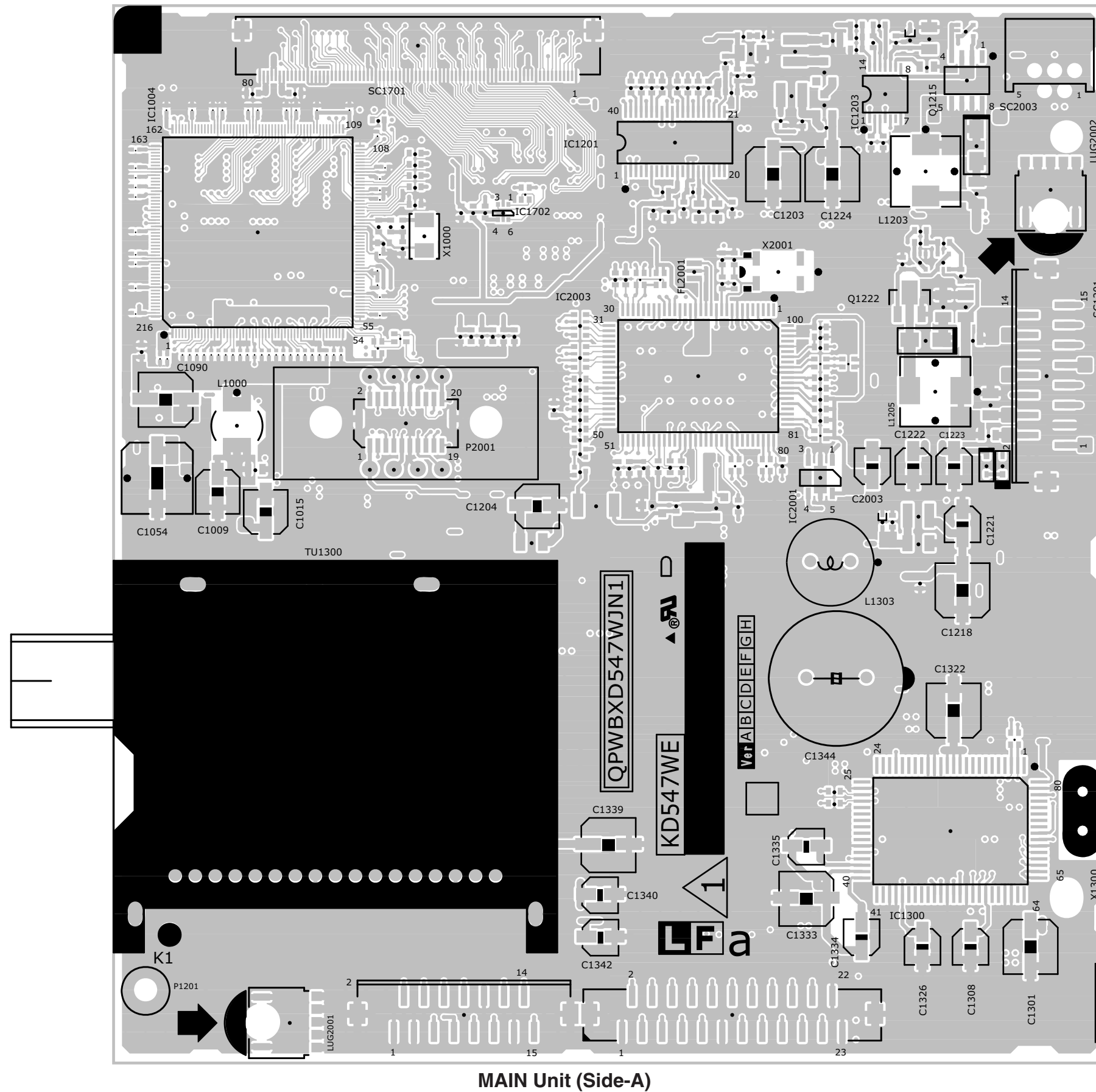


■ OPERATION Unit

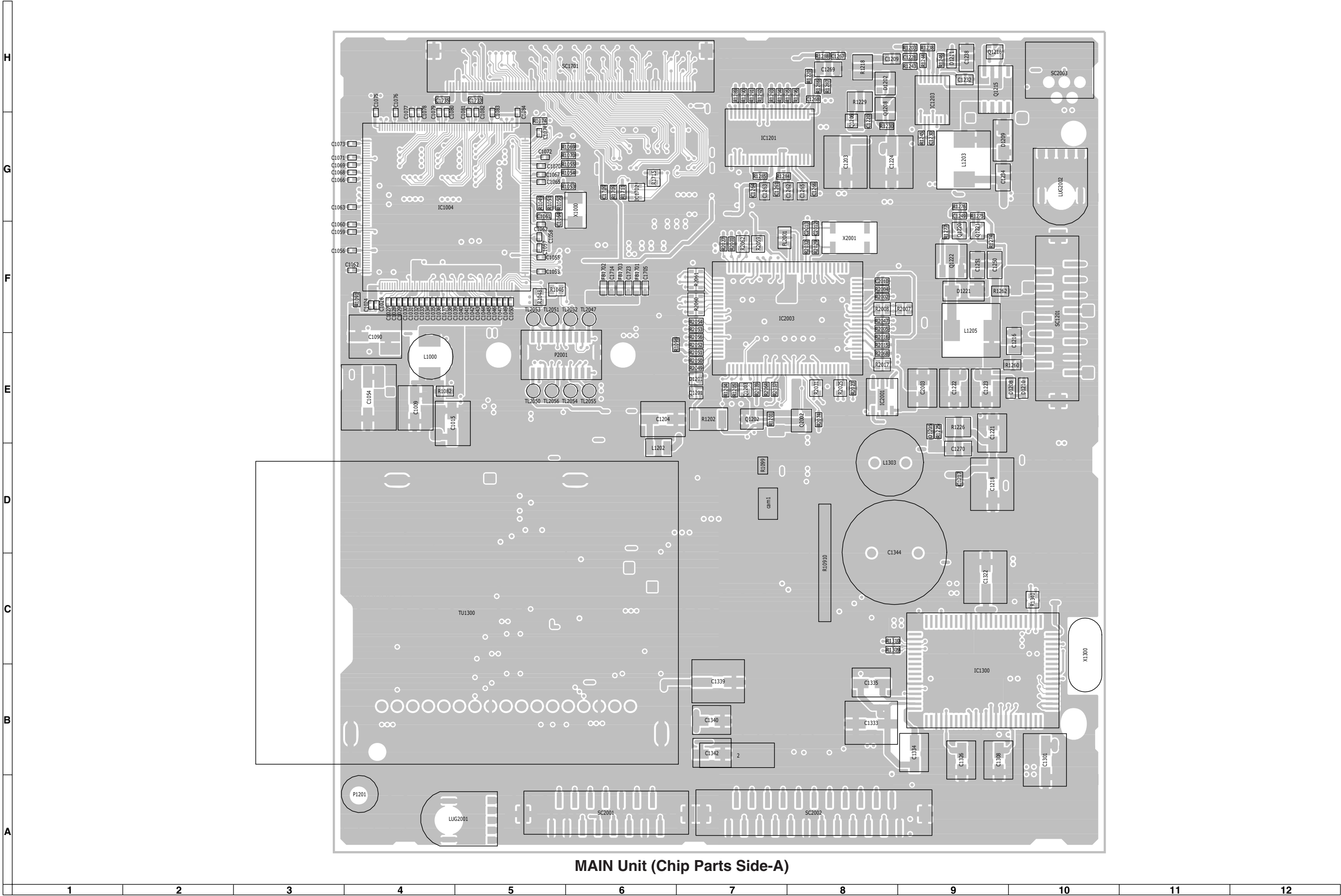


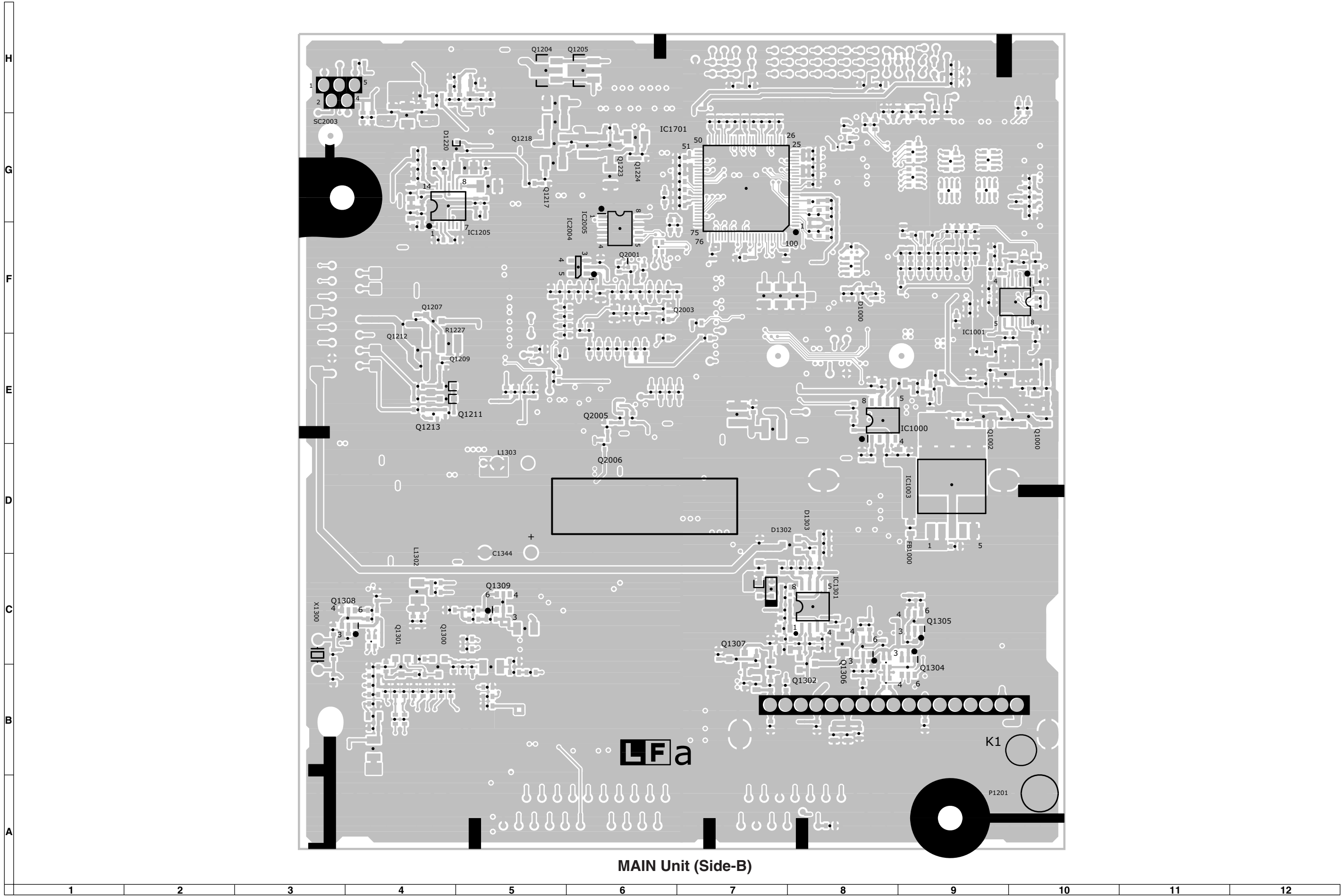


PRINTED WIRING BOARD ASSEMBLIES



MAIN Unit (Side-A)





G

F

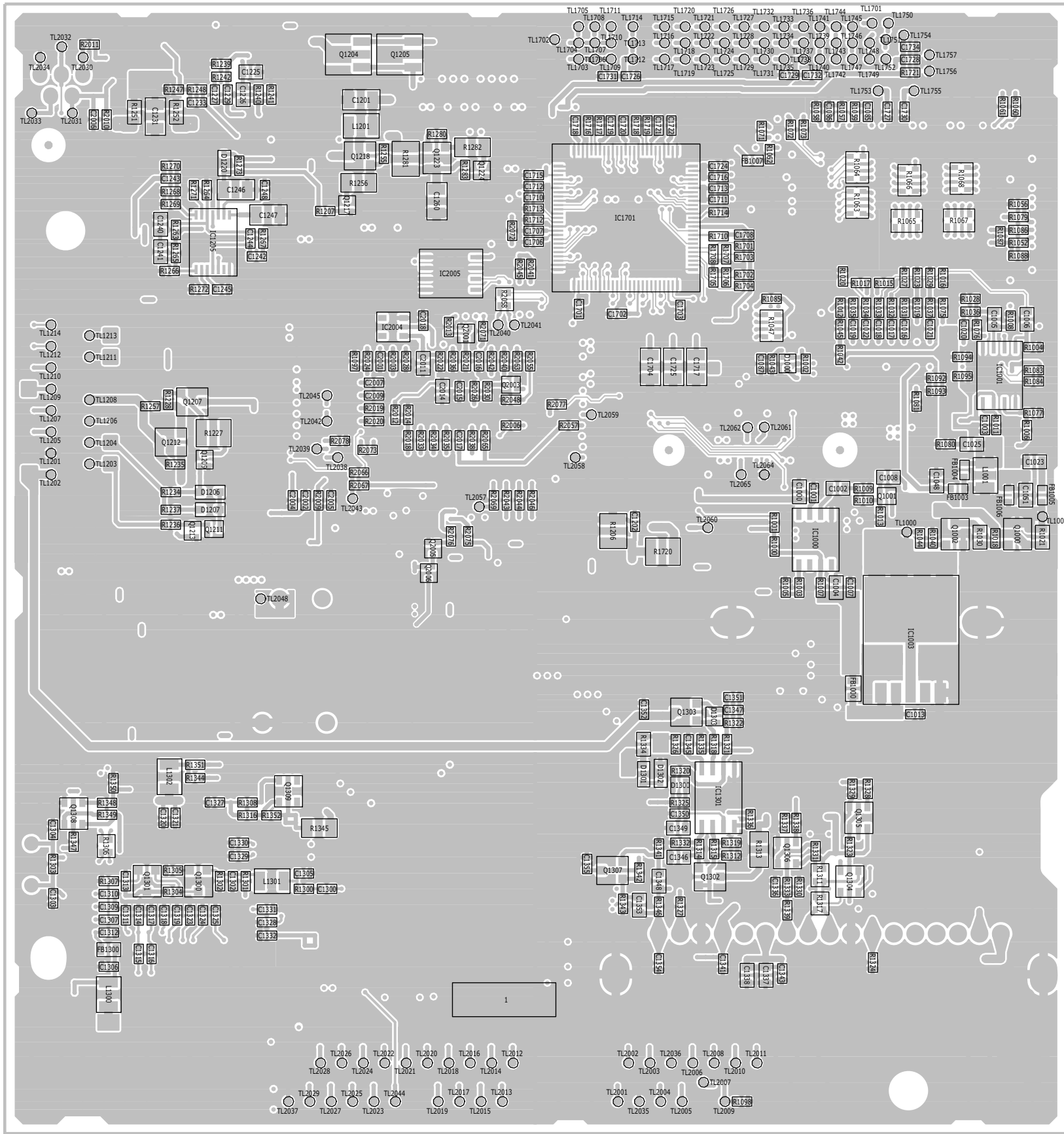
E

D

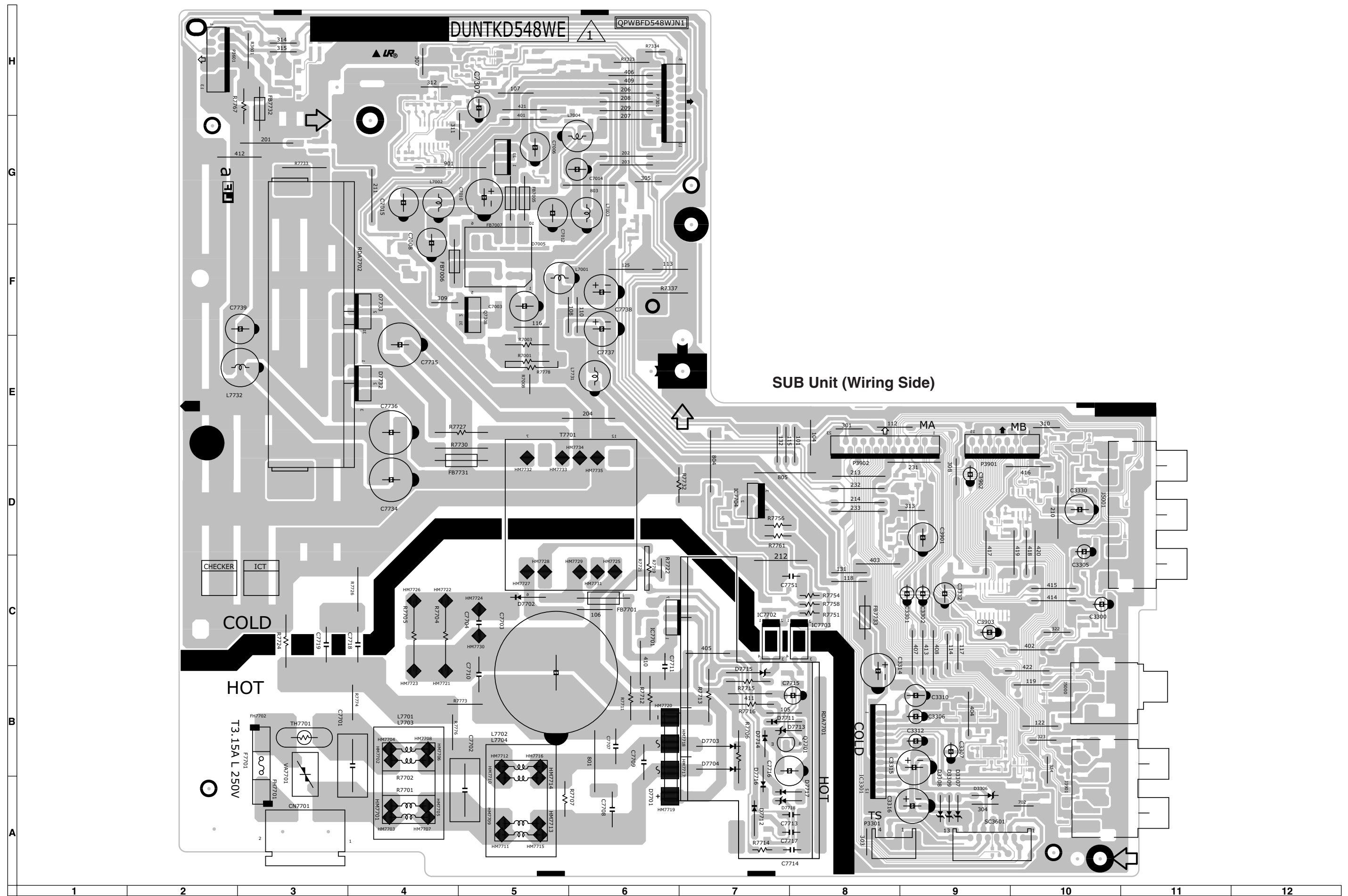
C

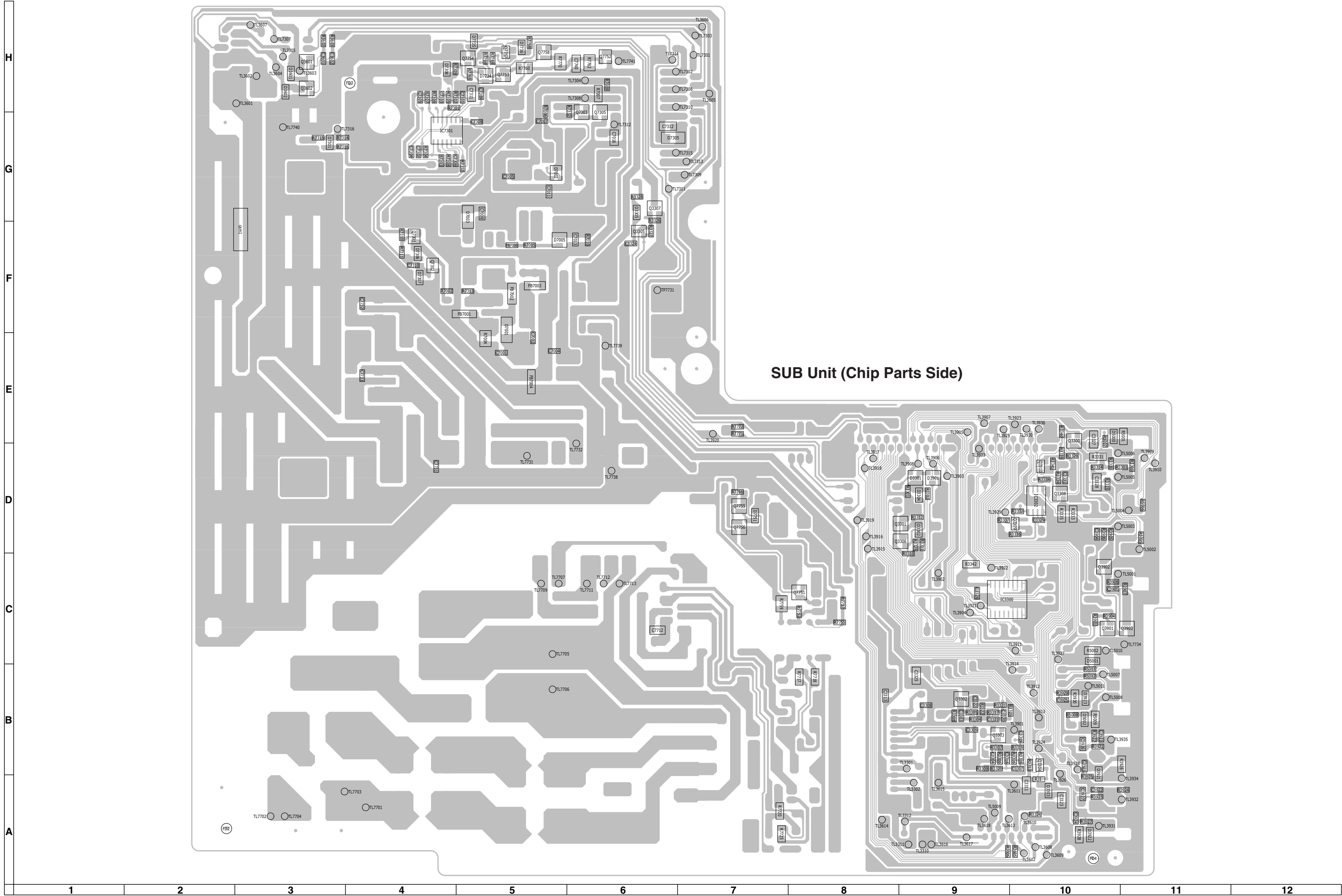
B

A

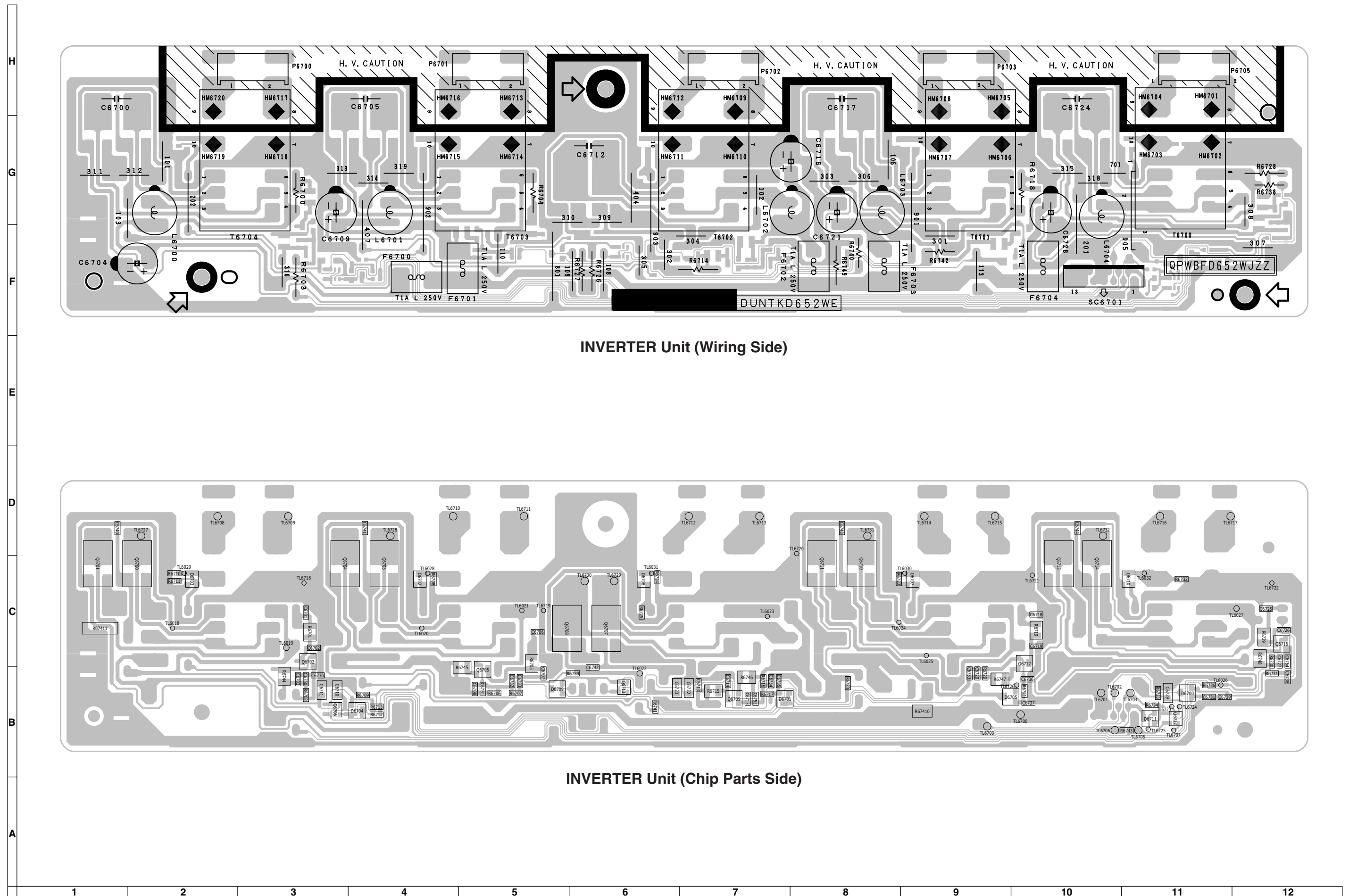


MAIN Unit (Chip Parts Side-B)

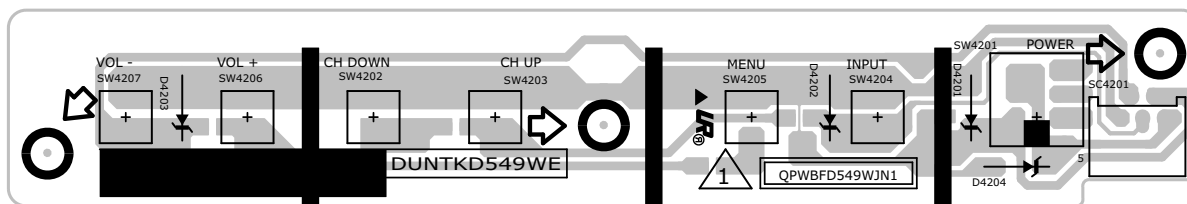




SUB Unit (Chip Parts Side)

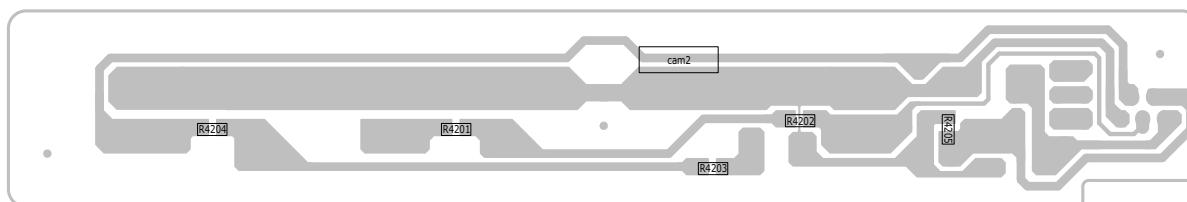


H



OPERATION Unit (Wiring Side)

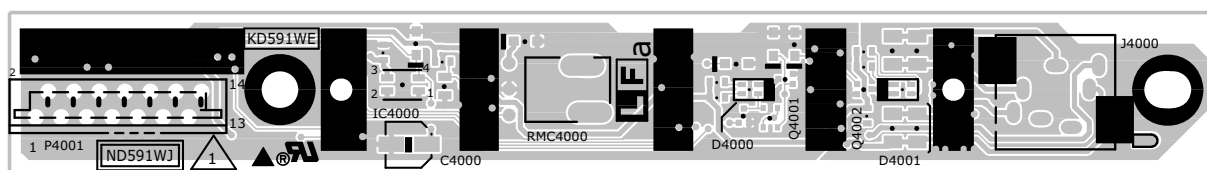
G



OPERATION Unit (Chip Parts Side)

F

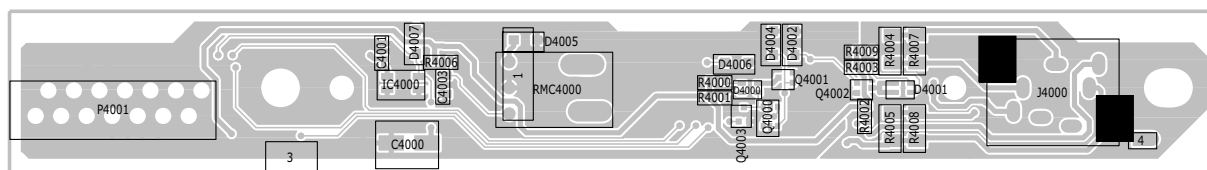
E



R/C, LED Unit (Wiring Side)

D

C



R/C, LED Unit (Chip Parts Side)

B

A

1

2

3


4

5

6

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
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PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

LC-20S5H

DUNTKD547FM30	—	MAIN Unit	—
DUNTKD548WE12	—	SUB Unit	—
DUNTKD549WE12	—	OPERATION Unit	—
DUNTKD591FM03	—	R/C,LED Unit	—
DUNTKD652FM03	—	INVERTER Unit	—

LC-20S5M

DUNTKD547FM33	—	MAIN Unit	—
DUNTKD548WE15	—	SUB Unit	—
DUNTKD549WE15	—	OPERATION Unit	—
DUNTKD591FM03	—	R/C,LED Unit	—
DUNTKD652FM03	—	INVERTER Unit	—

LC20S5X

DUNTKD547FM36	—	MAIN Unit	—
DUNTKD548WE18	—	SUB Unit	—
DUNTKD549WE18	—	OPERATION Unit	—
DUNTKD591FM03	—	R/C,LED Unit	—
DUNTKD652FM03	—	INVERTER Unit	—

LCD PANEL

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

R1LQ197V3GZ83T	V	20" LCD Panel Module	CT
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Ref. No.	Part No.	★	Description	Code
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DUNTKD547FM30 (LC-20S5H)
DUNTKD547FM33 (LC-20S5M)
DUNTKD547FM36 (LC-20S5X)
MAIN Unit

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

TU1300	VTUATMQZ6-423	J	Tuner	BC
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INTEGRATED CIRCUITS

IC1001	VHINJM2246M-1Y	J	NJM2246M	AF
IC1003	VHIPQ018EH1-1Y	J	PQ018EH01ZPH	AF
IC1004	RH-IXB151WJZZQ	V	R8A66605A03FP (LC-20S5H)	BE
IC1004	RH-IXB160WJZZQ	J	R8J66606A03FP (LC-20S5M, LC-20S5X)	BF
IC1201	VHIBD8133FV-1Y	J	BD8133FV-E2	AS
IC1203	RH-IXA828WJZZY	J	BD9300FV-FE2	AH
IC1205	RH-IXA828WJZZY	J	BD9300FV-FE2	AH
IC1300	RH-IX3371CEN2Q	J	MSP3410G-QA-C1	BA
IC1301	VHINJM2147M-1Y	J	NJM2147M-TE1	AF
IC1701	RH-IXB075WJZZQ	J	LR38875	AX
IC1702	VHIFSA4157+-1Y	J	FSA4157P6X	AE
IC2001	VHIPQ1L333M-1Y	J	PQ1L333M2SP	AD
IC2003	RH-IXA646WJN1Q	V	M30626FHPFPU5C	BE
IC2004	VHIPST3229N1EY	J	PST3229	AD
IC2005	VHIBR24L64F-1Y	J	BR24L64F-WE2	AK

TRANSISTORS

Q1000	VSFMMT718//-1Y	J	FMMT718	AE
Q1002	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1201	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1202	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1207	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1209	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1211	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1212	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1213	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1215	VSRSS040P03-1Y	J	RSS040P03	AE
Q1216	VSUML2N++++-1Y	J	UML2N	AC
Q1217	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1218	VSFMMT718//-1Y	J	FMMT718	AE
Q1220	VSUML2N++++-1Y	J	UML2N	AC
Q1221	VSUML1N++++-1Y	J	UML1N	AC
Q1222	VSRHP020N06-1Y	J	RHP020N06	AD
Q1223	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1224	VSDTC114EE/-1Y	J	DTC114EE	AB
Q1300	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1301	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1302	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1303	VS2SB1695+-1Y	J	2SB1695	AC
Q1305	VSIMZ1A///-1Y	J	IMZ1A	AC
Q1308	VSIMZ1A///-1Y	J	IMZ1A	AC
Q1309	VSUPA606T/-1Y	J	UPA606T	AD
Q2001	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2002	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q2003	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2005	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2006	VSDTA144EE/-1Y	J	DTC144EE	AA

DIODES

D1000	VHDDAN222//-1Y	J	Diode	AA
D1201	VHDDAN222//-1Y	J	Diode	AA
D1205	VHDBR521S30-1Y	J	Diode	AC
D1206	VHDHSU119//-1Y	J	Diode	AB
D1207	VHDHSU119//-1Y	J	Diode	AB
D1208	RH-EXA095WJZZY	J	Zener Diode, 16V	AB
D1209	VHDBR051L40-1Y	J	Diode	AD
D1210	RH-EXA095WJZZY	J	Zener Diode, 16V	AB
D1221	VHDBR051L40-1Y	J	Diode	AD
D1300	VHDDAN222//-1Y	J	Diode	AA
D1301	RH-EXA094WJZZY	J	Zener Diode, 15V	AB
D1302	RH-EXA095WJZZY	J	Zener Diode, 16V	AB
D1303	VHDDAN222//-1Y	J	Diode	AA

Ref. No.	Part No.	★	Description	Code
DUNTKD547FM30 (LC-20S5H) DUNTKD547FM33 (LC-20S5M) DUNTKD547FM36 (LC-20S5X) MAIN Unit (Continued)				
PACKAGED CIRCUITS				
X1000	RCRSCA097WJZZY	J	Crystal, 54MHz	AG
X1300	RCRSB0250GEZZ	J	Crystal, 18.432MHz	AG
X2001	RCRSC0032TAZZY	J	Crystal	AG
FILTER AND COILS				
FL2001	RFILZA003WJPZY	J	Filter, 16.000MHz	AD
L1001	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L1201	VPCNN100J1R6NY	J	Peaking, 10μH	AB
L1202	VPCNN470J5R4NY	J	Peaking, 47μH	AB
L1203	RCILPA154WJZZY	J	Coil	AE
L1205	RCILPA154WJZZY	J	Coil	AE
L1300	VPCNN101J7R7NY	J	Peaking, 100μH	AB
L1301	VPCNN220J2R9NY	J	Peaking, 22μH	AB
L1302	VPCNN4R7J1R2NY	J	Peaking, 4.7μH	AB
L1303	RCILPA142WJZZ	J	Coil	AD
CAPACITORS				
C1003	VCKYCY1AF105ZY	J	1 10V Ceramic	AC
C1005	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1006	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1009	VCAAPC0JJ476MY	J	47 6.3V Electrolytic	AE
C1013	VCKYCY1AF105ZY	J	1 10V Ceramic	AC
C1015	VCEASX0JN476MY	J	47 6.3V Electrolytic	AC
C1016	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1017	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1018	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1019	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1020	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1021	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1022	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1023	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1024	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1025	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1026	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1027	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1028	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1029	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1030	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1031	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1032	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1033	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1034	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1035	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1036	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1037	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1038	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1039	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1040	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1041	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1042	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1043	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1044	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1045	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1046	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1047	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1048	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1049	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1050	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1051	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1052	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1053	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1054	VCEASY1CN477MY	J	470 16V Electrolytic	AD
C1055	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1056	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1057	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1058	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1059	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1060	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1061	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1062	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C1063	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1064	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1065	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1066	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1067	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1068	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1069	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1070	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1071	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1072	VCKYCY1AB104KY	J	0.1 10V Ceramic	AB
C1073	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1074	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1075	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1076	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1077	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1078	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1079	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1080	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1081	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1082	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1083	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1084	VCKYCY1AB333KY	J	0.033 10V Ceramic	AB
C1085	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C1086	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1087	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C1090	VCEASX0JN227MY	J	220 6.3V Electrolytic	AC
C1201	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1202	VCKYCY1HB104KY	J	0.1 50V Ceramic	AA
C1203	VCEASX1EN476MY	J	47 25V Electrolytic	AC
C1204	VCEASX1HN475MY	J	4.7 50V Electrolytic	AC
C1216	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1217	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1221	VCEASX1HN225MY	J	2.2 50V Electrolytic	AB
C1222	VCEASX1CN106MY	J	10 16V Electrolytic	AC
C1223	VCEASX1HN225MY	J	2.2 50V Electrolytic	AB
C1224	VCEASX1CN107MY	J	100 16V Electrolytic	AC
C1225	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1226	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1227	VCKYCY1HB332KY	J	3300p 50V Ceramic	AA
C1228	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1229	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C1230	VCCCCY1HH181JY	J	180p 50V Ceramic	AA
C1231	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1232	RC-KZA113WJZZY	J	4.7 16V Ceramic	AB
C1233	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1234	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1240	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1241	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C1242	VCKYCY1HB332KY	J	3300p 50V Ceramic	AA
C1243	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1244	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C1245	VCCCCY1HH181JY	J	180p 50V Ceramic	AA
C1247	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1248	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1249	VCKYCY1EB223KY	J	0.022 25V Ceramic	AA
C1250	RC-KZA109WJZZY	J	10 16V Ceramic	AC
C1251	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1260	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1261	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1262	RC-KZA111WJZZY	J	1 25V Ceramic	AC
C1263	RC-KZA101WJZZY	J	10 6.3V Ceramic	AC
C1264	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1265	RC-KZA111WJZZY	J	1 25V Ceramic	AC
C1266	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1267	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1268	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1269	RC-KZA110WJZZY	J	10 25V Ceramic	AD
C1270	RC-KZA108WJZZY	J	10 10V Ceramic	AC
C1300	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C1301	VCEASX0JN107MY	J	100 6.3V Electrolytic	AC
C1302	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C1303	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1304	VCCCCY1HH5R0CY	J	5p 50V Ceramic	AA
C1305	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C1306	VCKYCY1AB105KY	J	1 10V Ceramic	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKD547FM30 (LC-20S5H)					C2007	VCKYCY1HB222KY	J	2200p 50V	Ceramic AA
DUNTKD547FM33 (LC-20S5M)					C2009	VCKYCY1HB222KY	J	2200p 50V	Ceramic AA
DUNTKD547FM36 (LC-20S5X)					C2010	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA
MAIN Unit (Continued)					C2011	VCKYTV1CF105ZY	J	1 16V	Ceramic AB
C1307	VCCCCY1HH560JY	J	56p 50V	Ceramic AB	C2012	VCCCCY1HH5R0CY	J	5p 50V	Ceramic AA
C1308	VCEASX1CN106MY	J	10 16V	Electrolytic AC	C2013	VCCCCY1HH180JY	J	18p 50V	Ceramic AA
C1309	VCCCCY1HH560JY	J	56p 50V	Ceramic AB	C2014	RC-KZA101WJZZY	J	10 6.3V	Ceramic AC
C1311	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	C2015	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA
C1312	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	C2016	VCKYCY1HB222KY	J	2200p 50V	Ceramic AA
C1313	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	C2017	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA
C1315	VCKYCY1AB105KY	J	1 10V	Ceramic AB	C2018	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA
C1316	VCKYCY1AB105KY	J	1 10V	Ceramic AB	RESISTORS				
C1320	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1001	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
C1321	VCKYCY1AB105KY	J	1 10V	Ceramic AB	R1002	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
C1322	VCEASX0JN107MY	J	100 6.3V	Electrolytic AC	R1004	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA
C1325	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1006	VRS-CY1JF750JY	J	75 1/16W	Metal Oxide AA
C1326	VCEASX1HN335MY	J	3.3 50V	Electrolytic AB	R1008	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA
C1327	VCKYCY1HB102KY	J	1000p 50V	Ceramic AA	R1011	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA
C1328	VCKYCY1EB223KY	J	0.022 25V	Ceramic AA	R1015	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1329	VCKYCY1HB102KY	J	1000p 50V	Ceramic AA	R1017	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1330	VCKYCY1HB102KY	J	1000p 50V	Ceramic AA	R1018	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA
C1331	VCKYCY1EB223KY	J	0.022 25V	Ceramic AA	R1019	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1332	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1028	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1333	VCEASX1CN107MY	J	100 16V	Electrolytic AC	R1030	VRS-TV1JD102JY	J	1k 1/10W	Metal Oxide AA
C1334	VCEASX1CN106MY	J	10 16V	Electrolytic AC	R1031	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1336	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1032	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1337	RC-KZA176WJZZY	J	10 10V	Ceramic AC	R1033	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1338	RC-KZA176WJZZY	J	10 10V	Ceramic AC	R1034	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1339	VCEASX1CN107MY	J	100 16V	Electrolytic AC	R1035	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1340	VCEASX1HN105MY	J	1 50V	Electrolytic AB	R1036	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1341	VCKYCY1HF103ZY	J	0.01 50V	Ceramic AA	R1037	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1342	VCAAPC0J226MY	J	22 6.3V	Electrolytic AE	R1040	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA
C1343	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1042	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1344	RC-EZA560WJZZ	J	3300 6.3V	Electrolytic AE	R1043	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
C1345	VCKYCY1HB104KY	J	0.1 50V	Ceramic AA	R1044	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1347	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1046	VRS-CJ1JF100JY	J	10 1/16W	Metal Oxide AA
C1349	RC-KZ0071TAZZY	J	2.2 6.3V	Ceramic AD	R1047	VRS-CH1JF103JY	J	10k 1/16W	Metal Oxide AA
C1350	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1049	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA
C1351	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1050	VRS-CY1JF560JY	J	56 1/16W	Metal Oxide AA
C1352	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1051	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1354	VCCCCY1HH391JY	J	390p 50V	Ceramic AB	R1052	VRS-CY1JF470JY	J	47 1/16W	Metal Oxide AA
C1701	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1053	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1702	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1054	VRS-CY1JF470JY	J	47 1/16W	Metal Oxide AA
C1703	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1055	VRS-CY1JF470JY	J	47 1/16W	Metal Oxide AA
C1704	RC-KZA108WJZZY	J	10 10V	Ceramic AC	R1056	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1705	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1057	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1706	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1058	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1707	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1059	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
C1708	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1060	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1709	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1061	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1710	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1062	VRS-CY1JF470JY	J	47 1/16W	Metal Oxide AA
C1711	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1063	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1712	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1064	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1713	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1065	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1714	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1066	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1715	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1067	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1716	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1068	VRS-CH1JF470JY	J	47 1/16W	Metal Oxide AA
C1717	RC-KZA108WJZZY	J	10 10V	Ceramic AC	R1069	VRS-CY1JF270JY	J	27 1/16W	Metal Oxide AA
C1718	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1070	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1719	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1071	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1720	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1072	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1721	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1073	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1722	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1074	VRS-CY1JF220JY	J	22 1/16W	Metal Oxide AA
C1723	VCKYCY1HB104KY	J	0.1 50V	Ceramic AA	R1075	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1724	VCKYCY1HB104KY	J	0.1 50V	Ceramic AA	R1076	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1725	RC-KZA108WJZZY	J	10 10V	Ceramic AC	R1077	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1726	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1080	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1727	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1081	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C1728	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1082	VRS-TV1JD000JY	J	0 1/10W	Metal Oxide AA
C1729	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1085	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
C1730	VCKYCY1HB103KY	J	0.01 50V	Ceramic AA	R1087	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C2002	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1091	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C2003	VCEASX0JN226MY	J	22 6.3V	Electrolytic AB	R1093	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
C2004	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA	R1201	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA
C2005	VCKYCY1EF104ZY	J	0.1 25V	Ceramic AA					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNT KD547FM30 (LC-20S5H) DUNT KD547FM33 (LC-20S5M) DUNT KD547FM36 (LC-20S5X) MAIN Unit (Continued)									
R1202	VRS-TX2HF102JY	J	1k 1/2W	Metal Oxide AB	R1317	VRS-CJ1JF331JY	J	330 1/16W	Metal Oxide AA
R1203	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	R1318	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1204	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R1319	VRS-CY1JF562FY	J	5.6k 1/16W	Metal Oxide AA
R1205	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R1320	VRS-CY1JF393FY	J	39k 1/16W	Metal Oxide AA
R1206	VRS-TW2HF472JY	J	4.7k 1/2W	Metal Oxide AA	R1321	VRS-CY1JF563FY	J	56k 1/16W	Metal Oxide AA
R1207	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R1322	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1220	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R1323	VRS-CY1JF152JY	J	1.5k 1/16W	Metal Oxide AA
R1225	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide AA	R1324	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1226	VRS-TW2HF330JY	J	33 1/2W	Metal Oxide AA	R1325	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1227	VRS-TW2ED103JY	J	10k 1/4W	Metal Oxide AA	R1326	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1228	VRS-CY1JF332JY	J	3.3k 1/16W	Metal Oxide AA	R1327	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
R1234	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA	R1328	VRS-CY1JF561FY	J	560 1/16W	Metal Oxide AA
R1235	VRS-CY1JF681JY	J	680 1/16W	Metal Oxide AA	R1329	VRS-CY1JF102FY	J	1k 1/16W	Metal Oxide AA
R1236	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R1330	VRS-CY1JF274JY	J	270k 1/16W	Metal Oxide AA
R1237	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R1332	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1238	VRS-CY1JF104FY	J	100k 1/16W	Metal Oxide AA	R1334	VRS-TV1JD102JY	J	1k 1/10W	Metal Oxide AA
R1239	VRS-CY1JF104FY	J	100k 1/16W	Metal Oxide AA	R1335	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1240	VRS-CY1JF273JY	J	27k 1/16W	Metal Oxide AA	R1336	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1241	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	R1339	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R1242	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R1340	VRS-CJ1JF101JY	J	100 1/16W	Metal Oxide AA
R1243	VRS-CY1JF203FY	J	20k 1/16W	Metal Oxide AA	R1344	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1244	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R1346	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1245	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide AA	R1347	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
R1246	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R1348	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1247	VRS-CY1JF511JY	J	510 1/16W	Metal Oxide AA	R1349	VRS-CY1JF152JY	J	1.5k 1/16W	Metal Oxide AA
R1248	VRS-CY1JF511JY	J	510 1/16W	Metal Oxide AA	R1350	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1251	VRS-TV1JD000JY	J	0 1/10W	Metal Oxide AA	R1352	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1252	VRS-TV1JD000JY	J	0 1/10W	Metal Oxide AA	R1705	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1255	VRS-CY1JF272JY	J	2.7k 1/16W	Metal Oxide AA	R1706	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1256	VRS-TQ2BD103JY	J	10k 1/8W	Metal Oxide AA	R1707	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1260	VRS-TV1JD000JY	J	0 1/10W	Metal Oxide AA	R1708	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1262	VRS-TV1JD000JY	J	0 1/10W	Metal Oxide AA	R1709	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA
R1263	VRS-CY1JF104FY	J	100k 1/16W	Metal Oxide AA	R1710	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R1264	VRS-CY1JF104FY	J	100k 1/16W	Metal Oxide AA	R1711	VRS-CY1JF270JY	J	27 1/16W	Metal Oxide AA
R1265	VRS-CY1JF273JY	J	27k 1/16W	Metal Oxide AA	R1714	VRS-CY1JF123FY	J	12k 1/16W	Metal Oxide AA
R1266	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	R1715	VRS-CJ1JF270JY	J	27 1/16W	Metal Oxide AA
R1267	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R1720	VRS-TW2HF361JY	J	360 1/2W	Metal Oxide AA
R1268	VRS-CY1JF203FY	J	20k 1/16W	Metal Oxide AA	R2001	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA
R1269	VRS-CY1JF564FY	J	560k 1/16W	Metal Oxide AA	R2002	VRS-CY1JF102FY	J	1k 1/16W	Metal Oxide AA
R1270	VRS-CY1JF204FY	J	200k 1/16W	Metal Oxide AA	R2003	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
R1271	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R2004	VRS-CY1JF623FY	J	62k 1/16W	Metal Oxide AA
R1272	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide AA	R2005	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1273	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R2007	VRS-CJ1JF223JY	J	22k 1/16W	Metal Oxide AA
R1274	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	R2008	VRS-CJ1JF102JY	J	1k 1/16W	Metal Oxide AA
R1275	VRS-CY1JF331JY	J	330 1/16W	Metal Oxide AA	R2009	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1276	VRS-CY1JF511JY	J	510 1/16W	Metal Oxide AA	R2011	VRS-CY1JF222JY	J	2.2k 1/16W	Metal Oxide AA
R1277	VRS-CY1JF303JY	J	30k 1/16W	Metal Oxide AA	R2012	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R1280	VRS-CY1JF272JY	J	2.7k 1/16W	Metal Oxide AA	R2013	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1281	VRS-TW2ED182JY	J	1.8k 1/4W	Metal Oxide AA	R2016	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1282	VRS-TQ2BD332JY	J	3.3k 1/8W	Metal Oxide AB	R2017	VRS-CJ1JF223JY	J	22k 1/16W	Metal Oxide AA
R1283	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R2018	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1284	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA	R2020	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R1285	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R2021	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA
R1286	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	R2022	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
R1287	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	R2023	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1288	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	R2025	VRS-CJ1JF101JY	J	100 1/16W	Metal Oxide AA
R1300	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R2026	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1301	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA	R2027	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA
R1302	VRS-CY1JF332JY	J	3.3k 1/16W	Metal Oxide AA	R2028	VRS-CY1JF512JY	J	5.1k 1/16W	Metal Oxide AA
R1303	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA	R2030	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA
R1304	VRS-CY1JF152JY	J	1.5k 1/16W	Metal Oxide AA	R2031	VRS-CJ1JF101JY	J	100 1/16W	Metal Oxide AA
R1305	VRS-CY1JF331JY	J	330 1/16W	Metal Oxide AA	R2032	VRS-CY1JF394JY	J	390k 1/16W	Metal Oxide AA
R1306	VRS-CJ1JF101JY	J	100 1/16W	Metal Oxide AA	R2033	VRS-CY1JF680JY	J	68 1/16W	Metal Oxide AA
R1307	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R2034	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1309	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R2035	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1310	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R2036	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1312	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R2037	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1313	VRS-TQ2BD000JY	J	0 1/8W	Metal Oxide AA	R2038	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1314	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R2039	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
R1315	VRS-CY1JF332JY	J	3.3k 1/16W	Metal Oxide AA	R2040	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R1316	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	R2041	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA
					R2042	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
					R2044	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA
					R2045	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA
					R2047	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKD547FM30 (LC-20S5H) DUNTKD547FM33 (LC-20S5M) DUNTKD547FM36 (LC-20S5X) MAIN Unit (Continued)					DUNTKD548WE12 (LC-20S5H) DUNTKD548WE15 (LC-20S5M) DUNTKD548WE18 (LC-20S5X) SUB Unit				
					INTEGRATED CIRCUITS				
R2048	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA	IC3300	VHiTC4053BF1EY	J	TC4053BF	AF
R2049	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	IC3301	VHiLA4635A+-1S	J	LA4635A	AM
R2052	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	IC3302	VHiNJM2235M-1Y	J	NJM2235M	AE
R2054	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	IC7301	VHiBD9300F+-1Y	J	BD9300F-FE2	AG
R2055	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	IC7701	VHiSTRW67652E	J	STR-W6765N	AL
R2056	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	△ IC7702	RH-FXA003WJZZ	J	PC123Y82	AD
R2057	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA	△ IC7703	RH-FXA003WJZZ	J	PC123Y82	AD
R2058	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA	IC7704	VHiSE012N//-1	J	SE012N	AH
R2059	VRS-CJ1JF153JY	J	15k 1/16W Metal Oxide	AA	TRANSISTORS				
R2060	VRS-CH1JF680JY	J	68 1/16W Metal Oxide	AA	Q3300	VSDTC314TK/-1Y	J	DTC314TK	AC
R2061	VRS-CH1JF101JY	J	100 1/16W Metal Oxide	AA	Q3301	VS2SC3928AR-1Y	J	2SC3928AR	AB
R2062	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA	Q3302	VSDTC314TK/-1Y	J	DTC314TK	AC
R2063	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA	Q3303	VSDTC314TK/-1Y	J	DTC314TK	AC
R2065	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA	Q3304	VSUMH2N++++-1Y	J	UMH2N	AC
R2066	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3305	VS2SD2657+-1Y	J	2SD2657	AC
R2067	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA	Q3306	VSDTC114EKA-1Y	J	DTC114EKA	AB
R2071	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3307	VSKRC104S/-1Y	J	KRC104S	AA
R2073	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3308	VS2SC3928AR-1Y	J	2SC3928AR	AB
R2074	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3309	VSUMG4N++++-1Y	J	UMG4N	AB
R2075	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3310	VSUM6K1NTN+-1Y	J	UM6K1NTN	AC
R2076	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3601	VSKRC102S/-1Y	J	KRC102S	AA
R2077	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA	Q3602	VSKRC102S/-1Y	J	KRC102S	AA
R2078	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA	Q3901	VS2SA1530AR-1Y	J	2SA1530AR	AB
MISCELLANEOUS PARTS					Q3902	VSDTC314TK/-1Y	J	DTC314TK	AC
FB1000	RBLN-0210TAZZY	J	Ferrite Bead	AB	Q3903	VSDTC314TK/-1Y	J	DTC314TK	AC
FB1003	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7301	VS2SB1695+-1Y	J	2SB1695	AC
FB1005	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7302	VS2SD2657+-1Y	J	2SD2657	AC
FB1006	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7303	VS2SA1530AR-1Y	J	2SA1530AR	AB
FB1007	RBLN-0083GEZZY	J	Ferrite Bead	AB	Q7305	VSKRC104S/-1Y	J	KRC104S	AA
FB1300	RBLN-0035TAZZY	J	Ferrite Bead	AB	Q7308	VS2SK3236+-1	J	2SK3236	AG
FB1701	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7701	VS2SA1013//1E+	J	2SA1013	AD
FB1702	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7751	VSKRC104S/-1Y	J	KRC104S	AA
FB1703	RBLN-0006TAZZY	J	Ferrite Bead	AB	Q7755	VSKRC104S/-1Y	J	KRC104S	AA
P2001	QPLGNA144WJZZY	J	Plug, 20-pin	AF	Q7756	VSKRC104S/-1Y	J	KRC104S	AA
SC1201	QCNCWA010WJZZY	J	Connector, 15-pin	AE	DIODES				
SC1701	QSOCNA222WJZZY	J	Socket, 80-pin	AH	D3301	VHD1PS184+-1Y	J	Diode	AB
SC2001	QCNCWA010WJZZY	J	Connector, 15-pin	AE	D3302	RH-EX1253CEZZY	J	Zener Diode, 6.8V	AB
SC2002	QCNCWA251WJZZY	J	Connector, 23-pin	AH	D3303	VHDBAS316/-1Y	J	Diode	AB
SC2003	QSOCN0596REZZ	J	Socket, 5-pin	AB	D3304	VHDBAS316/-1Y	J	Diode	AB
LUG2001	QLUGHA006WJZZY	J	Lug	AC	D3305	VHDBAS316/-1Y	J	Diode	AB
LUG2002	QLUGHA006WJZZY	J	Lug	AC	D3306	RH-EX0640GEZZY	J	Zener Diode, 12V	AA
					D3307	RH-EX0640GEZZY	J	Zener Diode, 12V	AA
					D3308	RH-EX0640GEZZY	J	Zener Diode, 12V	AA
					D3309	RH-EX0640GEZZY	J	Zener Diode, 12V	AA
					D3601	RH-EX1293CEZZY	J	Zener Diode, 24V	AB
					D3602	RH-EX1293CEZZY	J	Zener Diode, 24V	AB
					D3901	VHD1PS184+-1Y	J	Diode	AB
					D3921	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D3922	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D3923	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D5000	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D5001	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D5002	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
					D7001	VHDLi116++++-1Y	J	Diode	AC
					D7002	VHD1SS250//1EY	J	Diode	AB
					D7003	VHDLi124++++-1Y	J	Diode	AC
					D7004	VHDSF30SC6+-1	J	Diode	AH
					D7005	VHD1PS184+-1Y	J	Diode	AB
					D7301	VHDBAS316/-1Y	J	Diode	AB
					D7306	VHDBAS316/-1Y	J	Diode	AB
					D7307	VHDBAS316/-1Y	J	Diode	AB
					D7701	RH-DX0476CEZZ	J	Diode	AG
					D7702	RH-DX0321CEZZY	J	Diode	AC
					D7703	RH-DX0490CEZZY	J	Diode	AC
					D7704	RH-DX0490CEZZY	J	Diode	AC
					D7711	RH-DX0066GEZZY	J	Diode	AC
					D7712	VHD1SS244/-1Y	J	Diode	AB
					D7713	RH-EX0640GEZZY	J	Zener Diode, 12V	AA

Ref. No.	Part No.	★	Description	Code
DUNTKD548WE12 (LC-20S5H)				
DUNTKD548WE15 (LC-20S5M)				
DUNTKD548WE18 (LC-20S5X)				
SUB Unit (Continued)				
D7714	VHD1SS244/-1Y	J	Diode	AB
D7715	RH-EX0618GEZZY	J	Zener Diode, 6.2V	AB
D7716	VHD1SS244/-1Y	J	Diode	AB
D7717	VHD1SS244/-1Y	J	Diode	AB
D7718	RH-EX0656GEZZY	J	Zener Diode	AB
D7732	VHDSF30SC6+-1	J	Diode	AH
D7733	VHDSF30SC6+-1	J	Diode	AH
D7751	RH-EX1226CEZZY	J	Zener Diode, 2.4V	AB
TH7701	RH-HXA019WJZZ	J	Thermistor	AE
△ VA7701	RH-VXA022WJZZ	J	Varistor	AD

COILS

L7001	RCILPA476WJZZ+	J	Coil	AC
L7002	RCILPA356WJZZ+	J	Coil	AC
L7003	RCILPA356WJZZ+	J	Coil	AC
L7004	RCILPA476WJZZ+	J	Coil	AC
△ L7701	RCILFA145WJZZ	J	Coil	AG
△ L7702	RCILFA145WJZZ	J	Coil	AG
L7731	RCILPA476WJZZ+	J	Coil	AC
L7732	RCILP0184CEZZ	J	Coil	AE

TRANSFORMERS

T7001	RTRNWA169WJZZ	J	Transformer	AG
△ T7701	RTRNWA173WJZZ	J	Transformer	AQ

CAPACITORS

C3300	VCESKA1CM106M+	J	10 16V Electrolytic	AB
C3301	VCESKA1HM225M+	J	2.2 50V Electrolytic	AB
C3302	VCESKA1HM225M+	J	2.2 50V Electrolytic	AB
C3303	VCKYCY1HB153KY	J	0.015 50V Ceramic	AA
C3304	VCKYCY1HB153KY	J	0.015 50V Ceramic	AA
C3305	VCESKA1CM106M+	J	10 16V Electrolytic	AB
C3306	VCESKA1HM105M+	J	1 50V Electrolytic	AB
C3307	VCESKA1HM105M+	J	1 50V Electrolytic	AB
C3308	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C3309	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C3310	VCESKA1CM107M+	J	100 16V Electrolytic	AC
C3312	VCESKA1CM106M+	J	10 16V Electrolytic	AB
C3313	VCKYTV1CB105KY	J	1 16V Ceramic	AC
C3314	RC-EZA162WJZZ	V	1000 16V Electrolytic	AD
C3315	RC-EZA216WJZZ	J	1000 16V Electrolytic	AD
C3316	RC-EZA216WJZZ	J	1000 16V Electrolytic	AD
C3323	RC-KZA216WJZZY	J	2.2 50V Ceramic	AC
C3324	VCKYCY1HF224ZY	J	0.22 50V Ceramic	AA
C3325	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C3326	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3327	RC-KZA108WJZZY	J	10 10V Ceramic	AC
C3328	RC-KZA108WJZZY	J	10 10V Ceramic	AC
C3329	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3330	VCESKA1CM477M+	J	470 16V Electrolytic	AD
C3331	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3332	VCESKA1CM107M+	J	100 16V Electrolytic	AC
C3601	VCKYCY1HB332KY	J	3300p 50V Ceramic	AA
C3602	VCKYCY1HB332KY	J	3300p 50V Ceramic	AA
C3901	RC-EZA184WJZZ+	J	1000 50V Electrolytic	AD
C3902	VCESKA1CM106M+	J	10 16V Electrolytic	AB
C3903	VCESKA1CM106M+	J	10 16V Electrolytic	AB
C3904	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3905	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3921	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3922	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3923	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3924	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3925	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C3926	VCKYTV1CB105KY	J	1 16V Ceramic	AC
C3927	VCKYTV1CB105KY	J	1 16V Ceramic	AC
C7001	RC-KZA124WJZZY	J	0.22 50V Ceramic	AD
C7002	VCKYCY1HB562KY	J	5600p 50V Ceramic	AA
C7003	RC-EZA464WJZZ	J	1000 16V Electrolytic	AD
C7004	VCKYCY1HB562KY	J	5600p 50V Ceramic	AA
C7005	VCCCCY1HH181JY	J	180p 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code
C7006	RC-EZA184WJZZ+	J	1000 50V Electrolytic	AD
C7007	VCKYCY1HF104ZY	J	0.1 50V Ceramic	AA
C7008	RC-EZA159WJZZ+	J	330 16V Electrolytic	AC
C7009	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C7010	RC-EZA451WJZZ	J	1800 10V Electrolytic	AD
C7011	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C7012	RC-EZA159WJZZ+	J	330 16V Electrolytic	AC
C7013	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C7014	VCESKA1CM107M+	J	100 16V Electrolytic	AC
C7301	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C7302	RC-KZA116WJZZY	J	4.7 6.3V Ceramic	AC
C7303	VCKYCY1HB332KY	J	3300p 50V Ceramic	AA
C7304	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C7305	VCCCCY1HH330JY	J	33p 50V Ceramic	AA
C7306	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C7308	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C7309	VCKYCY1AB684KY	J	0.68 10V Ceramic	AB
C7310	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
△ C7701	RC-FZA022WJZZ	J	0.22 275V Film	AD
△ C7702	RC-FZA022WJZZ	J	0.22 275V Film	AD
△ C7703	RC-EZA735WJQZ	J	180 400V Electrolytic	AQ
C7704	RC-FZA180WJZZ	J	0.1 580V Film	AD
C7707	RC-KZ0103GEZZ	J	1000p 250V Ceramic	AD
C7708	RC-KZ0103GEZZ	J	1000p 250V Ceramic	AD
C7711	RC-KZA271WJZZ	J	470p 2kV Ceramic	AC
C7712	RC-KZA216WJZZY	J	2.2 50V Ceramic	AC
C7713	VCKYPA1HB471K+	J	470p 50V Ceramic	AA
C7714	VCQYTA1HM104J+	J	0.1 50V Mylar	AB
C7715	VCESKA1VM106M+	J	10 35V Electrolytic	AB
C7716	VCESKA1HM476M+	J	47 50V Electrolytic	AD
C7717	VCQYTA1HM332J+	J	3300p 50V Mylar	AA
△ C7718	RC-KZ0103GEZZ	J	1000p 250V Ceramic	AD
C7734	RC-EZA485WJZZ	V	1800 25V Electrolytic	AF
C7735	RC-EZA468WJZZ	J	2200 16V Electrolytic	AE
C7736	RC-EZA485WJZZ	V	1800 25V Electrolytic	AF
C7737	RC-EZA162WJZZ	V	1000 16V Electrolytic	AD
C7738	RC-EZA162WJZZ	V	1000 16V Electrolytic	AD
C7739	RC-EZA476WJZZ+	J	350 25V Electrolytic	AC
C7751	VCQYTA1HM104J+	J	0.1 50V Mylar	AB

RESISTORS

RJ1	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3300	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R3301	VRS-CY1JF153JY	J	15k 1/16W Metal Oxide	AA
R3302	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R3303	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3304	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R3305	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3306	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R3307	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R3308	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3309	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3310	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R3311	VRS-CY1JF392JY	J	3.9k 1/16W Metal Oxide	AA
R3312	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3313	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R3314	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R3315	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R3316	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3317	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3324	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3325	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R3326	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3327	VRS-CY1JF473JY	J	47k 1/16W Metal Oxide	AA
R3328	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R3329	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R3330	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R3331	VRS-TQ2BD750JY	J	75 1/8W Metal Oxide	AA
R3332	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R3333	VRS-TQ2BD471JY	J	470 1/8W Metal Oxide	AA
R3334	VRS-CY1JF100JY	J	10 1/16W Metal Oxide	AA
R3335	VRS-TQ2BD221JY	J	220 1/8W Metal Oxide	AA
R3336	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3337	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R3338	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKD548WE12 (LC-20S5H)					R7718	VRS-TQ2BD562JY	J	5.6k 1/8W	Metal Oxide AA
DUNTKD548WE15 (LC-20S5M)					R7719	VRD-RA2HD220JY	J	22 1/2W	Carbon AA
DUNTKD548WE18 (LC-20S5X)					R7720	VRS-TQ2BD102JY	J	1k 1/8W	Metal Oxide AA
SUB Unit (Continued)					△ R7724	RR-HZ0014GEZZY	J	12M 1W	Coat-insulated fixed anti-surge AE
R3339	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R7725	VRS-TQ2BD153JY	J	15k 1/8W	Metal Oxide AA
R3340	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R7727	VRN-VV3DBR10J	J	0.1 2W	Metal Film AB
R3341	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R7732	VRD-RA2BE000JY	J	0 1/8W	Carbon AA
R3342	VRS-TQ2BD100JY	J	10 1/8W	Metal Oxide AA	R7752	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
R3602	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA	R7754	VRD-RA2BE102JY	J	1k 1/8W	Carbon AA
R3603	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA	R7755	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R3605	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R7757	VRS-CY1JF272JY	J	2.7k 1/16W	Metal Oxide AA
R3606	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R7758	VRD-RA2BE000JY	J	0 1/8W	Carbon AA
R3901	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R7759	VRS-TW2HF122JY	J	1.2k 1/2W	Metal Oxide AA
R3904	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R7761	VRD-RA2BE000JY	J	0 1/8W	Carbon AA
R3905	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA	R7766	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
R3906	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R7767	VRD-RA2EE153JY	J	15k 1/4W	Carbon AA
R3907	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA	R7771	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R3908	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	MISCELLANEOUS PARTS				
R3921	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	△ F7701	QFS-D0010CEZZ	J	Fuse, 3.15A/250V	AE
R3922	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	FH7701	QFSD1014CEZZ+	J	Fuse Holder	AC
R3923	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	FH7702	QFSD1013CEZZ+	J	Fuse Holder	AC
R3924	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	FB7002	RBLN-0084CEZZY	J	Ferrite Bead	AC
R3925	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	FB7003	RBLN-0084CEZZY	J	Ferrite Bead	AC
R3926	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	FB7004	RBLN-0095CEZZY	J	Ferrite Bead	AD
R3927	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	FB7005	RBLN-0090GEZZY	J	Ferrite Bead	AB
R3928	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	FB7006	RBLN-0090GEZZY	J	Ferrite Bead	AB
R3929	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	FB7007	RBLN-0090GEZZY	J	Ferrite Bead	AB
R3930	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	FB7008	RBLN-0051TAZZY	J	Ferrite Bead	AC
R5001	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	FB7732	RBLN-0090GEZZY	J	Ferrite Bead	AB
R5002	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	FB7733	RBLN-0090GEZZY	J	Ferrite Bead	AB
R5005	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	△ CN7701	QSOC A003WJZZ	J	AC INPUT Terminal (110-240V)	AD
R5006	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	J3901	QJAKHA025WJZZ	V	Terminal, AUDIO IN (L)(R) /(P _B)(P _R)	AE
R5007	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	J5000	QTANZA029WJZZ	V	Terminal, VIDEO (Y)/ S-VIDEO	AG
R5008	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	J5001	QJAKLA009WJZZ	J	Jack, VIDEO/AUDIO (L)(R)	AE
R5009	VRS-TQ2BD750JY	J	75 1/8W	Metal Oxide AA	P3301	QPLGNA185WJZZ	J	Plug, 4-pin(TS)	AB
R5011	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	P3601	QPLGZ1338CEZZ	J	Plug, 13-pin(MF)	AE
R5012	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	P3901	QCNCMA012WJZZ	J	Connector, 15-pin(MB)	AD
R7001	VRS-VV3AB222J	J	2.2k 1W	Metal Oxide AA	P3902	QCNCMA250WJZZ	J	Connector, 23-pin(MA)	AE
R7003	VRS-VV3AB222J	J	2.2k 1W	Metal Oxide AA	P7301	QCNCMA012WJZZ	J	Connector, 15-pin	AD
R7004	VRS-TW2HF000JY	J	0 1/2W	Metal Oxide AA	SC3601	QSOCN1496REZZ	J	Socket, 14-pin	AC
R7005	VRS-CY1JF1R0JY	J	1 1/16W	Metal Oxide AA	HM7703LX-GZ3002PEZZ	J	Screw	AB	
R7006	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	HM7704LX-GZ3002PEZZ	J	Screw	AB	
R7007	VRS-TQ2BD683JY	J	68k 1/8W	Metal Oxide AA	HM7707LX-GZ3002PEZZ	J	Screw	AB	
R7009	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	HM7708LX-GZ3002PEZZ	J	Screw	AB	
R7010	VRS-CY1JF123JY	J	12k 1/16W	Metal Oxide AA	HM7711LX-GZ3002PEZZ	J	Screw	AB	
R7301	VRS-CY1JF104DY	J	100k 1/16W	Metal Oxide AA	HM7712LX-GZ3002PEZZ	J	Screw	AB	
R7302	VRS-CY1JF104DY	J	100k 1/16W	Metal Oxide AA	HM7715LX-GZ3002PEZZ	J	Screw	AB	
R7303	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	HM7716LX-GZ3002PEZZ	J	Screw	AB	
R7304	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	HM7717LX-GZ3001PEZZ	J	Screw	AB	
R7305	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	HM7718LX-GZ3001PEZZ	J	Screw	AB	
R7306	VRS-CY1JF333FY	J	33k 1/16W	Metal Oxide AA	HM7719LX-GZ3001PEZZ	J	Screw	AB	
R7307	VRS-CY1JF104FY	J	100k 1/16W	Metal Oxide AA	HM7720LX-GZ3001PEZZ	J	Screw	AB	
R7308	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	HM7721LX-GZ3002PEZZ	J	Screw	AB	
R7309	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	HM7722LX-GZ3002PEZZ	J	Screw	AB	
R7310	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	HM7723LX-GZ3002PEZZ	J	Screw	AB	
R7311	VRS-CY1JF331JY	J	330 1/16W	Metal Oxide AA	HM7724LX-GZ3002PEZZ	J	Screw	AB	
R7312	VRS-CY1JF511JY	J	510 1/16W	Metal Oxide AA	HM7725LX-GZ3002PEZZ	J	Screw	AB	
R7313	VRS-CY1JF333JY	J	33k 1/16W	Metal Oxide AA	HM7726LX-GZ3002PEZZ	J	Screw	AB	
R7314	VRS-CY1JF563JY	J	56k 1/16W	Metal Oxide AA	HM7727LX-GZ3002PEZZ	J	Screw	AB	
R7315	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	HM7728LX-GZ3002PEZZ	J	Screw	AB	
R7316	VRS-CY1JF182JY	J	1.8k 1/16W	Metal Oxide AA	HM7729LX-GZ3002PEZZ	J	Screw	AB	
R7332	VRS-CY1JF563JY	J	56k 1/16W	Metal Oxide AA	HM7730LX-GZ3002PEZZ	J	Screw	AB	
R7704	RR-DZA033WJZZ	J	180k 3W	Special Carbon Film AD	HM7731LX-GZ3002PEZZ	J	Screw	AB	
R7705	RR-DZA033WJZZ	J	180k 3W	Special Carbon Film AD	HM7732LX-GZ3002PEZZ	J	Screw	AB	
R7706	RR-DZA036WJZZ	J	150k 2W	Special Carbon Film AC	HM7733LX-GZ3002PEZZ	J	Screw	AB	
R7711	VRN-VV3ABR68J	J	0.68 1W	Metal Film AA	HM7734LX-GZ3002PEZZ	J	Screw	AB	
R7712	VRN-VV3ABR68J	J	0.68 1W	Metal Film AA	HM7735LX-GZ3002PEZZ	J	Screw	AB	
R7713	VRD-RA2BE101JY	J	100 1/8W	Carbon AA	RDA7701	PRDARA178WJFW	J	Heat Sink	AM
R7714	VRD-RA2BE102JY	J	1k 1/8W	Carbon AA	RDA7702	PRDARA185WJFW	J	Heat Sink	AL
R7715	VRD-RA2BE102JY	J	1k 1/8W	Carbon AA	XBPS730P10JS0	J	Screw, x4	AA	
R7716	VRD-RA2HD220JY	J	22 1/2W	Carbon AA					
R7717	VRS-TQ2BD102JY	J	1k 1/8W	Metal Oxide AA					

Ref. No.	Part No.	★	Description	Code
DUNTKD549WE12 (LC-20S5H)				
DUNTKD549WE15 (LC-20S5M)				
DUNTKD549WE18 (LC-20S5X)				
OPERATION Unit				
DIODES				
D4201	RH-EX0610GEZZY	J	Zener Diode, 4.7V	AA
D4202	RH-EX0610GEZZY	J	Zener Diode, 4.7V	AA
D4203	RH-EX0610GEZZY	J	Zener Diode, 4.7V	AA
D4204	RH-EX0610GEZZY	J	Zener Diode, 4.7V	AA
RESISTORS				
R4201	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R4202	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R4203	VRS-CY1JF682JY	J	6.8k 1/16W Metal Oxide	AA
R4204	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R4205	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
SWITCHES				
SW4201	QSW-P0614CEZZ	J	POWER	AF
SW4202	QSW-K0003AJZZ+	J	INPUT	AB
SW4203	QSW-K0003AJZZ+	J	CH(✓)	AB
SW4204	QSW-K0003AJZZ+	J	CH(∧)	AB
SW4205	QSW-K0003AJZZ+	J	MENU	AB
SW4206	QSW-K0003AJZZ+	J	VOL(+)	AB
SW4207	QSW-K0003AJZZ+	J	VOL(-)	AB
MISCELLANEOUS PARTS				
SC4201	QSOCN0596REZZ	J	Socket, 5-pin	AB

DUNTKD591FM03

R/C, LED Unit

INTEGRATED CIRCUITS				
IC4000	VHiMM1616++-1Y	J	MM1616XBRE	AF
TRANSISTORS				
Q4000	VSUMG4N++++-1Y	J	UMG4N	AB
Q4001	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4002	VSDTC144EE/-1Y	J	DTC144EE	AA
DIODES				
D4000	RH-PX0421CEZZY	J	Photodiode, POWER Indicator	AD
D4001	RH-PX0421CEZZY	J	Photodiode, OPC Indicator	AD
D4006	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
CAPACITORS				
C4000	VCEASX1CN106MY	J	10 16V Electrolytic	AC
C4001	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C4003	RC-KZ0117TAZZY	J	4.7 6.3V Ceramic	AD
RESISTORS				
R4000	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R4001	VRS-CY1JF182JY	J	1.8k 1/16W Metal Oxide	AA
R4002	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R4004	VRS-TQ2BD681JY	J	680 1/8W Metal Oxide	AA
R4005	VRS-TQ2BD681JY	J	680 1/8W Metal Oxide	AA
R4006	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R4007	VRS-TQ2BD681JY	J	680 1/8W Metal Oxide	AA
R4008	VRS-TQ2BD681JY	J	680 1/8W Metal Oxide	AA
R4009	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
J4000	QJAKJ0080CEZZ	J	Jack, Headphone	AF
P4001	QSOCN1495REZZ	J	Socket, 14-pin	AC
RMC4000	RRMCUA034WJQZ	J	R/C Sensor	AE

Ref. No.	Part No.	★	Description	Code
DUNTKD652FM03				
INVERTER Unit				
TRANSISTORS				
Q6700	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6701	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6702	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6703	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6704	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6705	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6706	VSUPA606T/-1Y	J	UPA606T	AD
Q6707	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6708	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6709	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6710	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6711	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6712	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6713	VSUPA606T/-1Y	J	UPA606T	AD
Q6714	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6715	VS2SC5886A+-1Y	J	2SC5886A	AD
Q6716	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6717	VSUPA606T/-1Y	J	UPA606T	AD
DIODES				
D6700	VHDDAN202K/-1Y	J	Diode	AB
D6701	VHDDAN202K/-1Y	J	Diode	AB
D6702	VHDMA157A/-1Y	J	Diode	AC
D6703	VHDMA157A/-1Y	J	Diode	AC
D6704	VHDDAN202K/-1Y	J	Diode	AB
D6705	VHDDAN202K/-1Y	J	Diode	AB
D6707	VHDMA157A/-1Y	J	Diode	AC
D6708	VHDMA157A/-1Y	J	Diode	AC
D6709	VHDDAN202K/-1Y	J	Diode	AB
D6710	VHDMA157A/-1Y	J	Diode	AC
D6711	VHDDAN202K/-1Y	J	Diode	AB
COILS				
L6700	RCiLPA373WJZZ	J	Coil	AC
L6701	RCiLPA373WJZZ	J	Coil	AC
L6702	RCiLPA373WJZZ	J	Coil	AC
L6703	RCiLPA373WJZZ	J	Coil	AC
L6704	RCiLPA373WJZZ	J	Coil	AC
TRANSFORMERS				
T6700	RTRNZA086WJZZ	J	Transformer	AM
T6701	RTRNZA086WJZZ	J	Transformer	AM
T6702	RTRNZA086WJZZ	J	Transformer	AM
T6703	RTRNZA086WJZZ	J	Transformer	AM
T6704	RTRNZA086WJZZ	J	Transformer	AM
CAPACITORS				
C6700	RC-FZA105WJZZ	J	0.068 250V Film	AE
C6703	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB
C6704	RC-EZA481WJZZ	J	820 25V Electrolytic	AE
C6705	RC-FZA105WJZZ	J	0.068 250V Film	AE
C6708	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB
C6709	RC-EZA481WJZZ	J	820 25V Electrolytic	AE
C6710	RC-KZ0072TAZZY	J	1 25V Ceramic	AC
C6711	RC-KZ0072TAZZY	J	1 25V Ceramic	AC
C6712	RC-FZA105WJZZ	J	0.068 250V Film	AE
C6715	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB
C6716	RC-EZA481WJZZ	J	820 25V Electrolytic	AE
C6717	RC-FZA105WJZZ	J	0.068 250V Film	AE
C6720	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB
C6721	RC-EZA481WJZZ	J	820 25V Electrolytic	AE
C6722	RC-KZ0072TAZZY	J	1 25V Ceramic	AC
C6723	RC-KZ0072TAZZY	J	1 25V Ceramic	AC
C6724	RC-FZA105WJZZ	J	0.068 250V Film	AE
C6727	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB
C6728	RC-EZA481WJZZ	J	820 25V Electrolytic	AE
C6729	RC-KZ0072TAZZY	J	1 25V Ceramic	AC
C6740	VCKYCY1CB333KY	J	0.033 16V Ceramic	AA
C6741	VCKYCY1CB333KY	J	0.033 16V Ceramic	AA
C6742	VCKYCY1CB333KY	J	0.033 16V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKD652FM03									
INVERTER Unit (Continued)									
C6743	VCKYCY1CB333KY	J	0.033 16V Ceramic	AA	HM6708LX-GZ3002PEZZ	J	Screw	AB	
C6744	VCKYCY1CB333KY	J	0.033 16V Ceramic	AA	HM6709LX-GZ3002PEZZ	J	Screw	AB	
C6750	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB	HM6710LX-GZ3002PEZZ	J	Screw	AB	
C6751	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB	HM6711LX-GZ3002PEZZ	J	Screw	AB	
C6752	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB	HM6712LX-GZ3002PEZZ	J	Screw	AB	
C6753	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB	HM6713LX-GZ3002PEZZ	J	Screw	AB	
C6754	VCKYCY1EB104KY	J	0.1 25V Ceramic	AB	HM6714LX-GZ3002PEZZ	J	Screw	AB	
RESISTORS					HM6715LX-GZ3002PEZZ	J	Screw	AB	
R6700	VRD-RA2EE182JY	J	1.8k 1/4W Carbon	AA	HM6716LX-GZ3002PEZZ	J	Screw	AB	
R6701	VRD-TW2ED122JY	J	1.2k 1/4W Metal Oxide	AA	HM6717LX-GZ3002PEZZ	J	Screw	AB	
R6702	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA	HM6718LX-GZ3002PEZZ	J	Screw	AB	
R6703	VRD-RA2BE333JY	J	33k 1/8W Carbon	AA	HM6719LX-GZ3002PEZZ	J	Screw	AB	
R6704	VRD-RA2EE182JY	J	1.8k 1/4W Carbon	AA	HM6720LX-GZ3002PEZZ	J	Screw	AB	
R6705	VRD-TW2ED122JY	J	1.2k 1/4W Metal Oxide	AA					
R6706	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6707	VRD-CY1JF333JY	J	33k 1/16W Metal Oxide	AA					
R6708	VRD-CY1JF471JY	J	470 1/16W Metal Oxide	AA					
R6709	VRD-CY1JF824JY	J	820k 1/16W Metal Oxide	AA					
R6710	VRD-CY1JF471JY	J	470 1/16W Metal Oxide	AA					
R6711	VRD-CY1JF824JY	J	820k 1/16W Metal Oxide	AA					
R6712	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6713	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6714	VRD-RA2EE182JY	J	1.8k 1/4W Carbon	AA					
R6715	VRD-TW2ED122JY	J	1.2k 1/4W Metal Oxide	AA					
R6716	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6717	VRD-CY1JF333JY	J	33k 1/16W Metal Oxide	AA					
R6718	VRD-RA2EE182JY	J	1.8k 1/4W Carbon	AA					
R6719	VRD-TW2ED122JY	J	1.2k 1/4W Metal Oxide	AA					
R6720	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6721	VRD-CY1JF333JY	J	33k 1/16W Metal Oxide	AA					
R6722	VRD-CY1JF471JY	J	470 1/16W Metal Oxide	AA					
R6723	VRD-CY1JF824JY	J	820k 1/16W Metal Oxide	AA					
R6724	VRD-CY1JF471JY	J	470 1/16W Metal Oxide	AA					
R6725	VRD-CY1JF824JY	J	820k 1/16W Metal Oxide	AA					
R6726	VRD-RA2BE562JY	J	5.6k 1/8W Carbon	AA					
R6727	VRD-RA2BE562JY	J	5.6k 1/8W Carbon	AA					
R6728	VRD-RA2EE182JY	J	1.8k 1/4W Carbon	AA					
R6729	VRD-TW2ED122JY	J	1.2k 1/4W Metal Oxide	AA					
R6730	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6731	VRD-CY1JF333JY	J	33k 1/16W Metal Oxide	AA					
R6732	VRD-CY1JF471JY	J	470 1/16W Metal Oxide	AA					
R6733	VRD-CY1JF824JY	J	820k 1/16W Metal Oxide	AA					
R6734	VRD-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA					
R6743	VRD-CY1JF563JY	J	56k 1/16W Metal Oxide	AA					
R6744	VRD-TW2ED561JY	J	560 1/4W Metal Oxide	AA					
R6745	VRD-TW2ED561JY	J	560 1/4W Metal Oxide	AA					
R6746	VRD-TW2ED561JY	J	560 1/4W Metal Oxide	AA					
R6747	VRD-TW2ED561JY	J	560 1/4W Metal Oxide	AA					
R6748	VRD-TW2ED561JY	J	560 1/4W Metal Oxide	AA					
R6749	VRD-RA2BE393JY	J	39k 1/8W Carbon	AA					
MISCELLANEOUS PARTS									
△ F6700	QFS-ZA001WJZZ	J	Fuse, 1A/AC250V	AD					
△ F6701	QFS-ZA001WJZZ	J	Fuse, 1A/AC250V	AD					
△ F6702	QFS-ZA001WJZZ	J	Fuse, 1A/AC250V	AD					
△ F6703	QFS-ZA001WJZZ	J	Fuse, 1A/AC250V	AD					
△ F6704	QFS-ZA001WJZZ	J	Fuse, 1A/AC250V	AD					
P6700	QPLGNA391WJZZ	J	Plug, 2-pin	AD					
P6701	QPLGNA391WJZZ	J	Plug, 2-pin	AD					
P6702	QPLGNA391WJZZ	J	Plug, 2-pin	AD					
P6703	QPLGNA391WJZZ	J	Plug, 2-pin	AD					
P6705	QPLGNA391WJZZ	J	Plug, 2-pin	AD					
SC6701	QSOCZ1338CEZZ	J	Socket, 13-pin	AD					
HM6701LX-GZ3002PEZZ		J	Screw	AB					
HM6702LX-GZ3002PEZZ		J	Screw	AB					
HM6703LX-GZ3002PEZZ		J	Screw	AB					
HM6704LX-GZ3002PEZZ		J	Screw	AB					
HM6705LX-GZ3002PEZZ		J	Screw	AB					
HM6706LX-GZ3002PEZZ		J	Screw	AB					
HM6707LX-GZ3002PEZZ		J	Screw	AB					

Ref. No.	Part No.	★	Description	Code
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CABINET AND MECHANICAL PARTS

1	CCABAB157WJ04	V	Cabinet A Ass'y	BK
1-1	<i>Not Available</i>	—	Cabinet A	—
1-2	HDECQA474WJSA	J	R/C,LED Cover	AE
1-3	PSPAHA040WJZZ	J	Mask Spacer (Side), x2	AD
1-4	PSPAHA041WJZZ	J	Mask Spacer (Top), x1	AD
1-5	PSPAHA213WJZZ	J	Mask Spacer (Bottom), x1	AD
1-6	QCNW-C853WJQZ	J	Connecting Cord	AF
1-7	VSP1104PB038A	J	Speaker, x2	AK
1-8	XEBSN40P10000	J	Screw, x4	AB
2	CCABBA686WJ04	V	Cabinet B Ass'y	BK
2-1	<i>Not Available</i>	—	Cabinet B	—
2-2	GCOVAB308WJKA	V	Terminal Cover	AL
2-3	HiNDPB538WJSA	V	AC Indication Label	AB
2-4	HiNDPB540WJSA	V	Terminal Indication Label	AF
2-5	JBTN-A478WJKA	V	Power Button	AE
2-6	JBTN-A479WJKA	V	Operation Button	AG
2-7	LANGFA085WJFW	J	Kensington Angle	AC
2-8	LANGTA232WJFW	V	Reinforcement Angle	AR
2-9	MSPRCA014WJFW	J	Spring, for Power Button	AB
2-10	PSPAHA662WJZZ	V	Spacer, x1	AB
2-11	PZETKA136WJZZ	V	Insulating Sheet	AL
2-12	XEBSN30P08000	J	Screw, x1	AA
2-13	XEBSN30P10000	J	Screw, x2	AA
2-14	XEBSN40P10000	J	Screw, x1	AB
3	CDAi-A162WJ03	V	Stand Ass'y	BG
3-1	GDAi-A162WJKA	J	Stand Base	AX
3-2	GLEGGA052WJZZ	V	Leg Cushion, x6	AB
3-3	LANGGA050WJF7	J	Swivel Base	AG
3-4	LANGHA004WJFW	J	Reinforcement Angle, x2	AE
3-5	LX-NZA001WJFN	J	Nut	AD
3-6	MHNG-A091WJ01	J	Swivel Hinge, x1	BA
3-7	XEBS940P08000	J	Screw, x6	AB
3-8	XUSSN40P20000	J	Screw, x4	AA

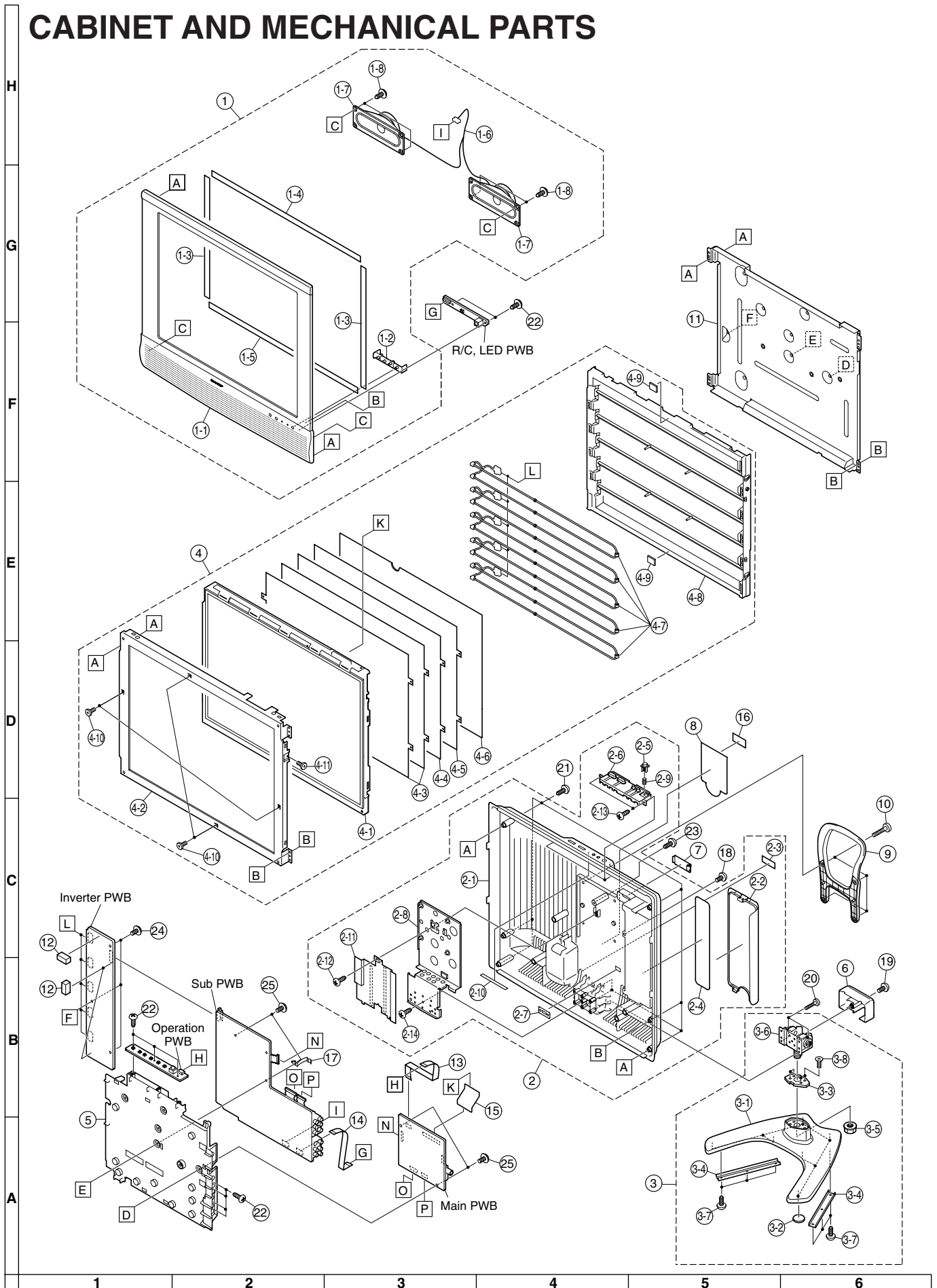
NOTE: The screws for the LCD panels are supplied as service parts in the unit of 1000 pieces.

4	R1LQ197V3GZ83T	V	20" LCD Panel Module	CT
4-1	<i>Not Available</i>	—	20" LCD Panel	—
4-2	LANGK3261TPZA	J	Bezel	AX
4-3	PSLDK2567TPZZ	J	Diffusion Sheet (Top), x2	AQ
4-4	POFMA0220TPZZ	J	Lens Sheet	BC
4-5	PSLDK2554TPZZ	J	Diffusion Sheet (Bottom)	AN
4-6	PSLDK2553TPZZ	J	Diffusion Plate	AX
△ 4-7	RLMPC2401TPZZ	J	Lamp Unit, x5	AX
4-8	LHLDZ3104TPZA	J	Backlight Case	BA
4-9	PZETE3778TPZZ	J	Spacer, x2	AC
4-10	LX-HZ2070TPZS	J	Screw, x4 (1,000 pcs.)	BR
4-11	LX-HZ2055TPZS	J	Screw, x1 (1,000 pcs.)	BP
5	LCHSMA263WJKA	V	Chassis Frame	AV
6	GCOVAB082WJKA	J	Stand Cover	AK
7	GCOVAB310WJKA	V	Bass-Cone Cover	AE
8	HiNDPB494WJSA	V	Model Label (LC-20S5H)	AF
8	HiNDPB495WJSA	V	Model Label (LC-20S5M)	AF
8	HiNDPB496WJSA	V	Model Label (LC-20S5X)	AF
9	JHNDPA017WJKA	J	Carrying Handle	AL
10	LX-BZ3442CEF9	J	Screw, x4	AB
11	PSLDMA763WJFW	V	Back Shield	AY
12	PSPAZA691WJZZ	J	Spacer, x3	AD
13	QCNW-D886WJQZ	J	Connecting Cord	AC
14	QCNW-D887WJQZ	J	Connecting Cord	AD
15	QPWBMD346WJPZ	J	Connecting Cord	AQ
16	<i>Not Available</i>	—	Serial No. Label	—
17	QEARPA125WJFW	J	Grounding Part	AD
18	XBBS930P05000	J	Screw, x1	AA
19	XBBS940P08000	J	Screw, x1	AB
20	XBBS940P25000	J	Screw, x4	AB
21	XEBS940P20000	J	Screw, x8	AB
22	XEBSN30P08000	J	Screw, x9	AA

Ref. No.	Part No.	★	Description	Code
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23	XHBS830P14000	V	Screw, x1	AB
24	XHPS730P08WS0	J	Screw, x3	AA
25	XHPS730P14WS0	V	Screw, x4	AB

CABINET AND MECHANICAL PARTS



Ref. No.	Part No.	★	Description	Code
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SUPPLIED ACCESSORIES

△ X1	QACCBA016WJPZ	J	AC Cord (LC-20S5H)	AR
△ X1	QACCKA006WJPZ	J	AC Cord (LC-20S5M)	AL
△ X1	QACCLA022WJPZ	J	AC Cord (LC-20S5X)	AN
X2	RRMCGA297WJSA	J	Remote Control Unit (LC-20S5M, LC-20S5X)	AT
X2	RRMCGA298WJSA	J	Remote Control Unit (LC-20S5H)	AT
X3	LHLDWA002WJSA	J	Cable Clamp, x2	AD
X4	TINS-C076WJZZ	V	Operation Manual (LC-20S5H)	AM
X4	TINS-C077WJZZ	V	Operation Manual (LC-20S5M)	AQ
X4	TINS-C183WJZZ	V	Operation Manual (LC-20S5X)	
X5	Not Available	—	"AAA" size Battery, x2	—

Ref. No.	Part No.	★	Description	Code
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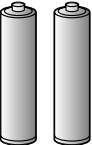
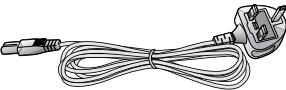
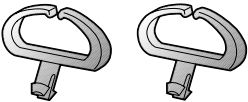
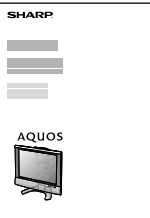
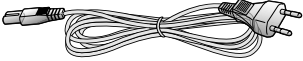

PACKING PARTS (NOT REPLACEMENT ITEM)

S1	SPAKCC283WJZZ	—	Packing Case (LC-20S5H)	—
S1	SPAKCC284WJZZ	—	Packing Case (LC-20S5M)	—
S1	SPAKCC288WJZZ	—	Packing Case (LC-20S5X)	—
S2	SPAKPA572WJZZ	—	Wrapping Paper	—
S3	SPAKXA862WJZZ	—	Buffer Material	—
S4	SPAKXA917WJZZ	—	Support Pad	—
S5	SSAKA0005PEZZ	—	Polyethylene Bag	—
S6	TLABV0182AJZZ	—	No. Label	—

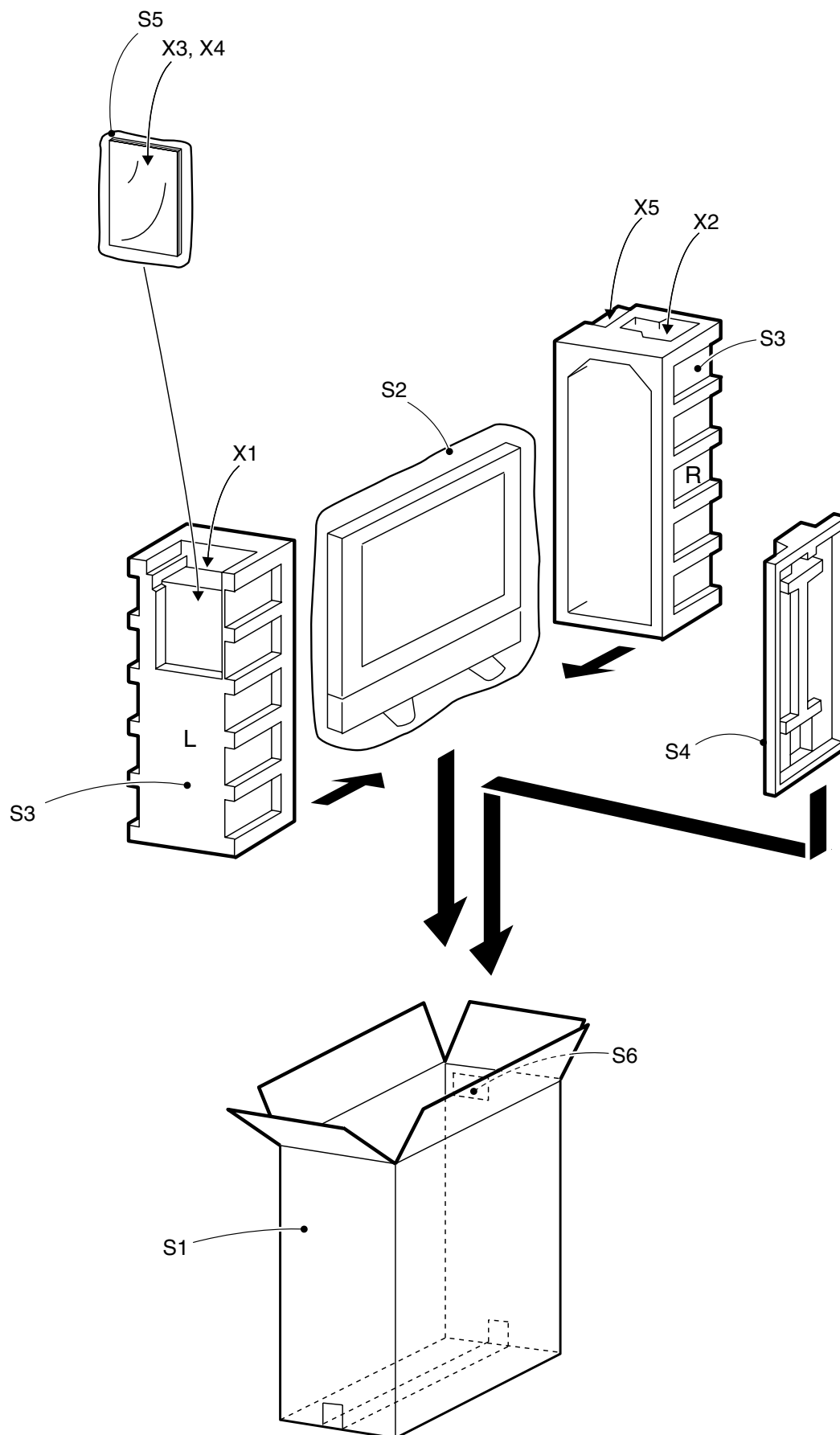
SERVICE JIGS (USE FOR SERVICING)

QCNW-C458WJQZ	J	Extension Cable, 80-pin (SC1701-LCD)	AM
JiGiNF-001	J	Interface Jig	CC

Supplied Accessories

Remote control unit		"AAA" size batteries (x2)	AC cord
X2		X5 	X1 
LC-20S5H LC-20S5M/X			LC-20S5H
Cable clamps (x2)		Operation manual	
X3		X4	
			LC-20S5M 
			LC-20S5X 

PACKING OF THE SET



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